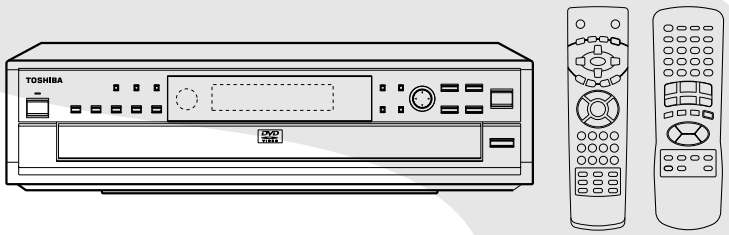
TOSHIBA

FILE NO. 810-200106

# SERVICE MANUAL

# DVD VIDEO PLAYER

# SD-2715
# SD-2705



AUGUST, 2001

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# SECTION 1

# SUMMARY

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## Safety Precautions

WARNING
RISK OF ELECTRIC SHOCK
DO NOT OPEN
AVERTISSEMENT
RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR
WARNING : TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK).
NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated 'dangerous voltage' within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

**WARNING:** **TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.**

**CAUTION:** **TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.**

**ATTENTION:** **POUR EVITER LES CHOCS ELECTRIQUE, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOUD.**

**CAUTION:** This Digital Video Disc Player employs a Laser System.
To ensure proper use of this product, please read this owner's manual carefully and retain for future reference. Should the unit require maintenance, contact an authorized service location-see service procedure.

Use of controls, adjustments or the performance of procedures other than those specified may result in hazardous radiation exposure.

To prevent direct exposure to laser beam, do not try to open the enclosure. Visible laser radiation is present when the enclosure is opened. DO NOT STARE INTO BEAM.

**FCC NOTICE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. There is no guarantee that interference will not occur in a particular installation.
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**FCC WARNING:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**INDUSTRY CANADA REQUIREMENT :**
This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.
Cet appareil numéruque de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

RECORD YOUR MODEL NUMBER (Now, while you can see it)

The model and serial number of your new DVD player are located on the back of the DVD player cabinet. For your future convenience, we suggest that you record these numbers here:

MODEL NO._____

SERIAL NO._____





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# IMPORTANT SAFETY INSTRUCTIONS

**CAUTION: PLEASE READ AND OBSERVE ALL WARNINGS AND INSTRUCTIONS IN THIS OWNER'S MANUAL AND THOSE MARKED ON THE UNIT. RETAIN THIS BOOKLET FOR FUTURE REFERENCE.**

This set has been designed and manufactured to assure personal safety. Improper use can result in electric shock or fire hazard. The safeguards incorporated in this unit will protect you if you observe the following procedures for installation, use and servicing.
This unit is fully transistorized and does not contain any parts that can be repaired by the user.
**DO NOT REMOVE THE CABINET COVER, OR YOU MAY BE EXPOSED TO DANGEROUS VOLTAGE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL ONLY.**

1. **Read owner's manual**
   After unpacking this product, read the owner's manual carefully, and follow all operating and related instructions.

2. **Power Sources**
   This product should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supply in your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

3. **Grounding or Polarization**
   This product is equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

4. **Ventilation**
   Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

5. **Heat**
   The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

6. **Water and Moisture**
   Do not use this product near water-for example, near a bath tub, wash bowl, kitchen sink. or laundry tub; in a wet basement; or near a swimming pool and the like.

7. **Cleaning**
   Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

8. **Power-Cord Protection**
   Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, playing particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

9. **Overloading**
   Do not overload wall outlets, extension cords, or integrated convenience receptacles as this can result in a risk of fire or electric shock.

10. **Lightning**
    For added protection of this product during storms, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage to the product due to lightning and power-line surges.

11. **Object and Liquid Entry**
    Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

12. **Attachments**
    Do not use attachments not recommended by the product manufacturer as they may cause hazards.







# IMPORTANT SAFETY INSTRUCTIONS (Cont'd)

13. **Accessories**
    Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer. A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

14. **Disc Tray**
    Keep your fingers well clear of the disc tray as it is closing. It may cause serious personal injury.

15. **Burden**
    Do not place a heavy object on or step on the product. The object may fall, causing serious personal injury and serious damage to the product.

16. **Connecting**
    When you connect the product to other equipment, turn off the power and unplug all of the equipment from the wall outlet. Failure to do so may cause an electric shock and serious personal injury. Read the owner's manual of the other equipment carefully and follow the instructions when making any connections.

17. **Sound Volume**
    Reduce the volume to the minimum level before you turn on the product. Otherwise, sudden high volume sound may cause hearing or speaker damage.

18. **Sound Distortion**
    Do not allow the product to output distorted sound for a prolonged time. It may cause speaker over-heating and fire.

19. **Headphones**
    When you use the headphones, keep the volume at a moderate level. If you use the headphones continuously with high volume sound, it may cause hearing damage.

20. **Laser Beam**
    Do not look into the opening of the disc tray or ventilation opening of the product to see the source of the laser beam. It may cause damage to your vision.

21. **Disc**
    Do not use a cracked, deformed, or repaired disc. These discs are easily broken and may cause serious personal injury and product malfunction.

22. **Damage Requiring Service**
    Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
    a) When the power-supply cord or plug is damaged.
    b) If liquid has been spilled, or objects have fallen into the product.
    c) If the product has been exposed to rain or water.
    d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
    e) If the product has been dropped or damaged in any way.
    f) When the product exhibits a distinct change in performance-this indicates a need for service.

23. **Servicing**
    Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

24. **Replacement parts**
    When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

25. **Safety Check**
    Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

## Precautions

### Notes on handling

- When shipping the DVD player, always use the original shipping carton and packing materials. For maximum protection, repack the unit as it was originally packed at the factory.
- Do not use volatile liquids, such as insect spray, near the DVD player. Do not leave rubber or plastic products in contact with the DVD player for a long time. They will leave marks on the finish.
- The top and rear panels of the DVD player may become warm after a long period of use. This is normal and not a malfunction.
- When the DVD player is not in use, be sure to remove the disc and turn off the power.
- If you do not use the DVD player for a long period, the unit may not function properly in the future. Turn on and use the DVD player occasionally.

### Notes on Locating

- When you place this DVD player near a TV, radio, or VCR, the playback picture may become poor and the sound may be distorted. In this case, move the DVD player away from the TV, radio, or VCR.

### Notes on Cleaning

**Use a soft, dry cloth for cleaning.**

- For stubborn dirt, soak the cloth in a weak detergent solution, wring well and wipe. Use a dry cloth to wipe it dry. Do not use any type of solvent, such as thinner and benzine, as they may damage the surface of the DVD player.
- If you use a chemical saturated cloth to clean the unit, follow that product's instructions.

**Warning:** Cleaning and adjustment of lenses and/or other components of playback mechanism should be performed by a qualified service technician.

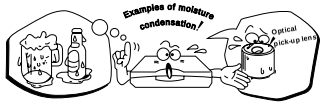
### To Obtain a Clear Picture

The DVD player is a high technology, precision device. If the optical pick-up lens and disc drive parts are dirty or worn down, the picture quality becomes poor. To obtain a clear picture, we recommend regular inspection and maintenance (cleaning or parts replacement) every 1,000 hours of use depending on the operating environment. For details, contact your nearest dealer.

### Notes on Moisture Condensation

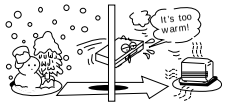
**Moisture condensation damages the DVD player. Please read the following carefully.**

Moisture condensation occurs, for example, when you pour a cold drink into a glass on a warm day. Drops of water form on the outside of the glass. In the same way, moisture may condense on the optical pick-up lens inside this unit, one of the most crucial internal parts of the DVD player.

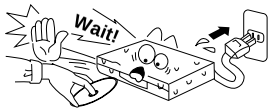



**Moisture condensation occurs during the following cases.**

- When you bring the DVD player directly from a cold place to a warm place.
- When you use the DVD player in a room where you just turned on the heater, or a place where the cold air from the air conditioner directly hits the unit.
- In summer, when you use the DVD player in a hot and humid place just after you move the unit from an air conditioned room.
- When you use the DVD player in a humid place.




- **Do not use the DVD player when moisture condensation may occur.**
  If you use the DVD player in such a situation, it may damage discs and internal parts. Remove the disc, connect the power cord of the DVD player to the wall outlet, turn on the DVD player and leave it "ON" for two or three hours. After two or three hours, the DVD player will have warmed up and evaporated any moisture. Keep the DVD player connected to the wall outlet and moisture condensation will seldom occur.





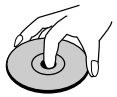



## Notes on Discs

**This section shows you how to handle, clean, and store discs.**

### On Handling Discs

- Do not touch the playback side of the disc.



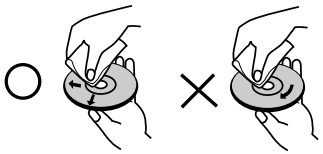
- Do not attach paper or tape to discs.

### On Storing Discs

- Do not store discs in a place subject to direct sunlight or near heat sources.
- Do not store discs in places subject to moisture and dust such as a bathroom or near a humidifier.
- Store discs vertically in a case. Stacking or placing objects on discs outside of their case may cause warping.

### On Cleaning Discs

- Fingerprints and dust on the disc cause picture and sound deterioration. Wipe the disc from the center outward with a soft cloth. Always keep the disc clean.
- If you cannot wipe off the dust with a soft cloth, wipe the disc lightly with a slightly moistened soft cloth and finish with a dry cloth.
- Do not use any type of solvents such as thinner, benzine, commercially available cleaners or anti-static spray for vinyl LPs. They may damage the disc.

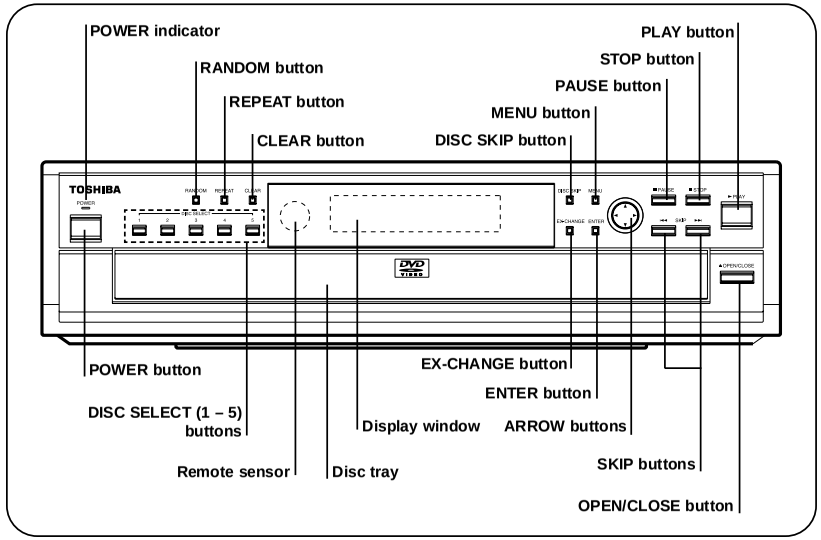


### About This Owner's Manual

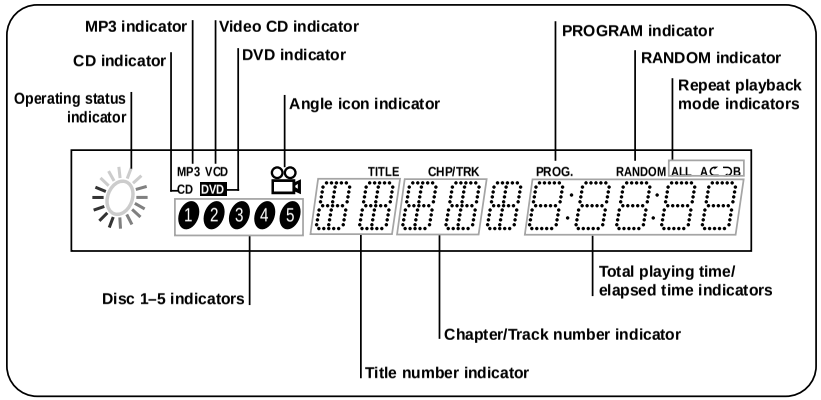
- This owner's manual explains the basic instructions of this DVD player.
- Some DVD video discs have functions that may not be explained in this owner's manual. Therefore, some instructions may differ from this owner's manual, and there may be extra instructions. In this case, follow the instructions displayed on the TV screen or package.
- " ⃠ " may appear on the TV screen during operation. This icon means the function explained in this owner's manual is not available on that specific DVD video disc.

## Identification of Controls

### Front Panel



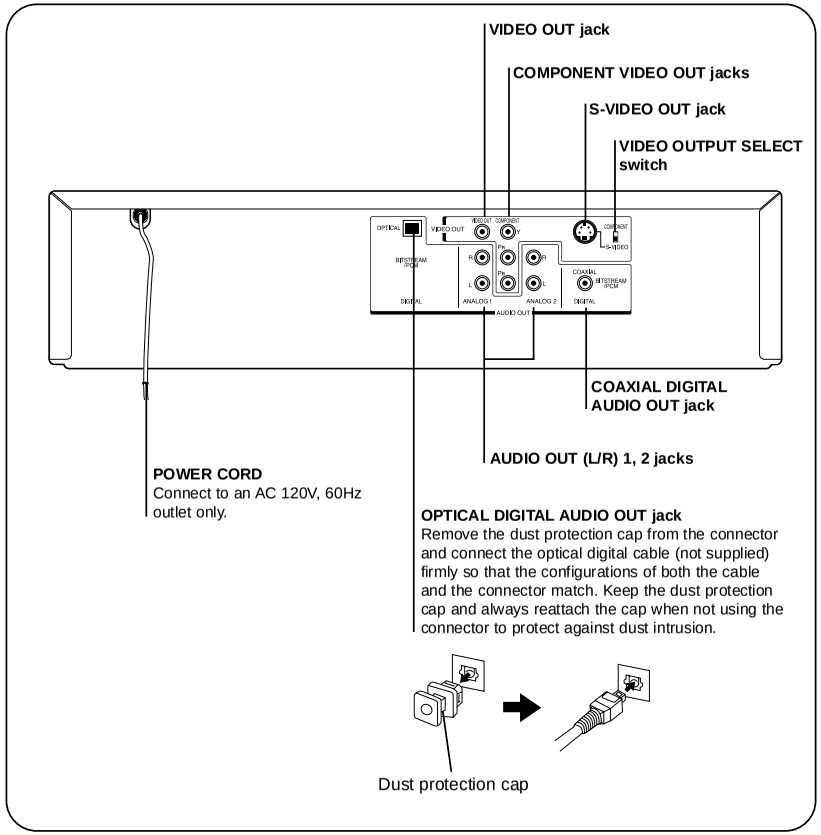

### Display Window






## Identification of Controls (Cont'd)

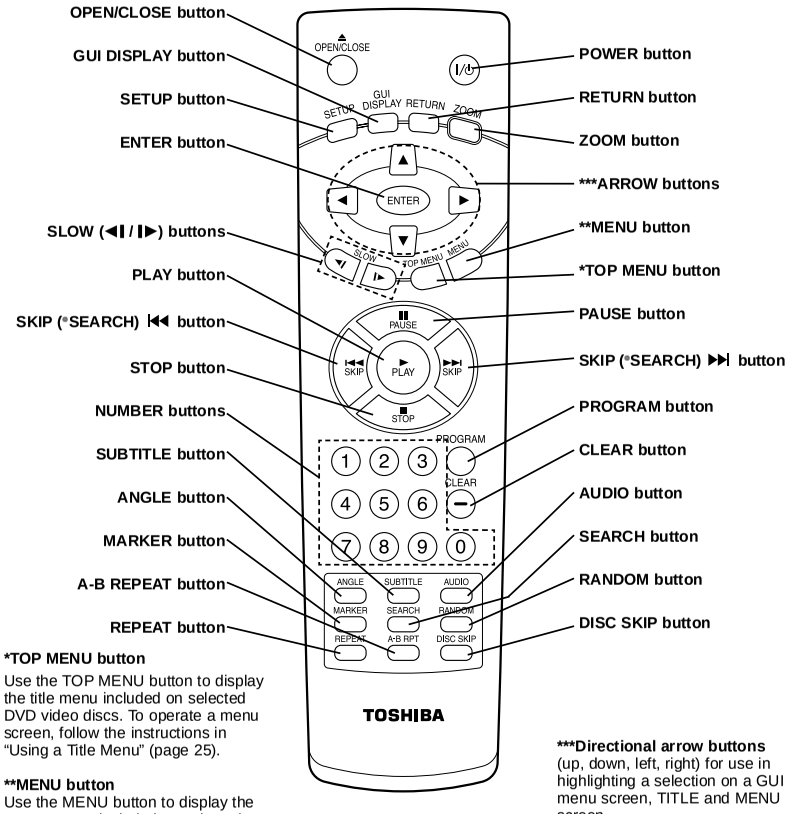
### Rear Panel


VIDEO OUT jack
COMPONENT VIDEO OUT jacks
S-VIDEO OUT jack
VIDEO OUTPUT SELECT switch
COAXIAL DIGITAL AUDIO OUT jack
AUDIO OUT (L/R) 1, 2 jacks
POWER CORD
Connect to an AC 120V, 60Hz outlet only.
OPTICAL DIGITAL AUDIO OUT jack
Remove the dust protection cap from the connector and connect the optical digital cable (not supplied) firmly so that the configurations of both the cable and the connector match. Keep the dust protection cap and always reattach the cap when not using the connector to protect against dust intrusion.
Dust protection cap

## Identification of Controls (Cont'd)

### Remote Control

**You will find instructions for each of the remote control functions in the appropriate sections of this instruction manual.**




***TOP MENU button**

Use the TOP MENU button to display the title menu included on selected DVD video discs. To operate a menu screen, follow the instructions in "Using a Title Menu" (page 25).

****MENU button**

Use the MENU button to display the menu screen included on selected DVD video discs. To operate a menu screen, follow the instructions in "Using a DVD Menu" (page 25).

*****Directional arrow buttons** (up, down, left, right) for use in highlighting a selection on a GUI menu screen, TITLE and MENU screen.

- Press and hold button for about two seconds to activate picture search function.



## Identification of Controls (Cont'd)

### Preparing the Remote Control

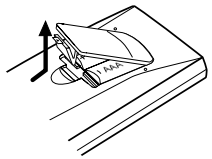
Insert the batteries into the remote control so you can use it to operate the DVD player.

**1 Open the battery cover.**

**2 Insert batteries (AAA size).**

- Make sure to match the + and - on the batteries to the marks inside the battery compartment.

**3 Close the cover.**



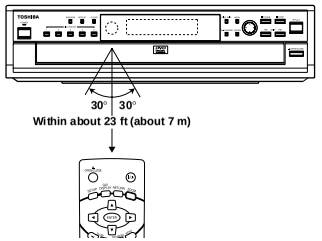
#### Notes on batteries

- Improper use of batteries may cause battery leakage and corrosion.
- To operate the remote control correctly, follow the instructions.
- Do not insert the batteries into the remote control in the wrong direction.
- Do not charge, heat, open, or short-circuit the batteries. Do not throw the batteries into fire.
- Do not leave dead or exhausted batteries in the remote control.
- Do not use different types of batteries together, or mix old and new batteries.
- If you do not use the remote control for a long period of time, remove the batteries to avoid possible damage from battery corrosion.
- If the remote control does not function correctly or if the operating range becomes reduced, replace all batteries with new ones.
- If battery leakage occurs, wipe the battery liquid from the battery compartment, then insert new batteries.
- The batteries should last about one year with normal use.

### Operating with the Remote Control

This section shows you how to use the remote control.

**Point the remote control at the remote sensor and press the buttons.**




Distance: About 23 ft (7 m) from the front of the remote sensor
Angle: About 30° in each direction of the front of the remote sensor

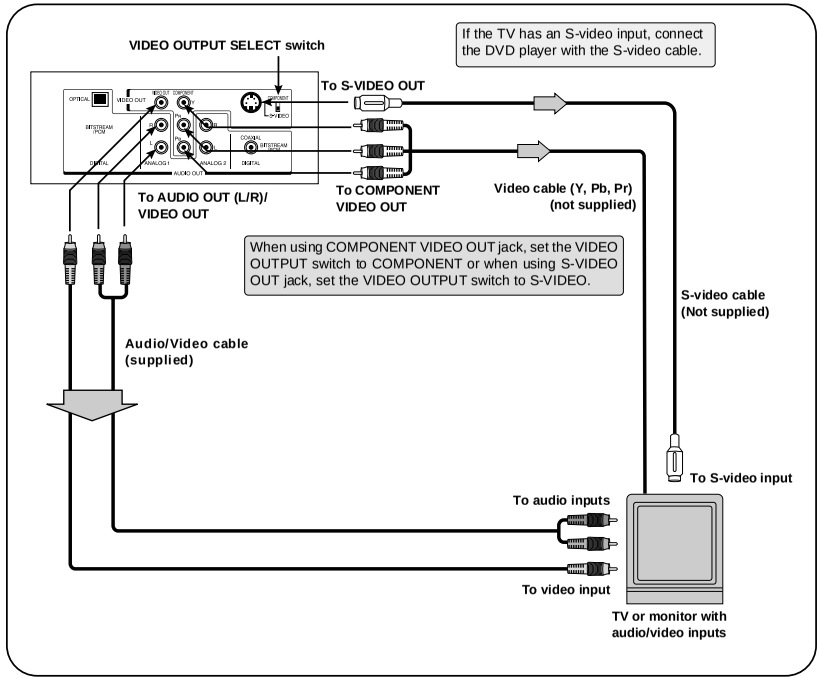
* Do not expose the remote sensor of the DVD player to a strong light source such as direct sunlight or illumination. If you do so, you may not be able to operate the DVD player with the remote control.

#### Notes on the remote control

- Point the remote control at the remote sensor on the DVD player.
- Do not drop or give the remote control a shock.
- Do not leave the remote control in an extremely hot or humid place.
- Do not spill water or put anything wet on the remote control.
- Do not disassemble the remote control.

## Connecting to a TV

**Connect the DVD player to your TV.**


VIDEO OUTPUT SELECT switch
If the TV has an S-video input, connect the DVD player with the S-video cable.
To S-VIDEO OUT
To AUDIO OUT (L/R)/ VIDEO OUT
To COMPONENT VIDEO OUT
Video cable (Y, Pb, Pr) (not supplied)
When using COMPONENT VIDEO OUT jack, set the VIDEO OUTPUT switch to COMPONENT or when using S-VIDEO OUT jack, set the VIDEO OUTPUT switch to S-VIDEO.
S-video cable (Not supplied)
Audio/Video cable (supplied)
To S-video input
To audio inputs
To video input
TV or monitor with audio/video inputs

**Notes**

- Refer to the owner's manual of your TV as well.
- Before you connect the DVD player to your TV, be sure to turn off the power and unplug both units from the wall outlet before making any connections.
- Connect the DVD player to your TV directly. If you connect the DVD player to a VCR, the playback picture will be distorted because DVD video discs are copy protected.

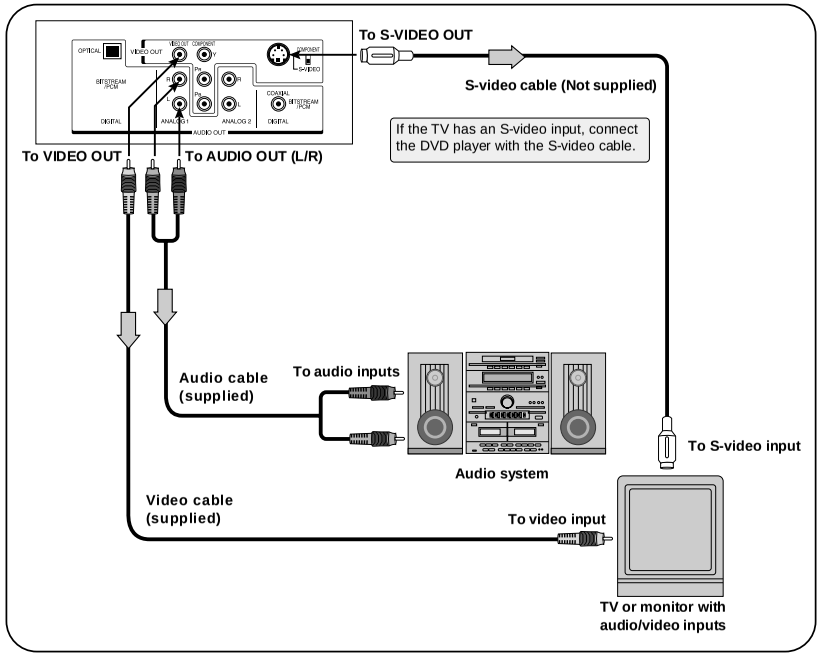
**⚠ Warning**

Do not set the Digital Audio Output of this DVD player to "Dolby Digital" unless you are connecting the DIGITAL OUT jack of this DVD player to an AV decoder that has the Dolby Digital decoding function. High volume sound may damage your hearing as well as the speakers (Refer to "Selecting Digital Audio Output" on page 38).



## Connecting to an Audio System

**You can listen to the sound of audio CDs and DVD video discs in stereo.**


To S-VIDEO OUT
S-video cable (Not supplied)
If the TV has an S-video input, connect the DVD player with the S-video cable.
To VIDEO OUT
To AUDIO OUT (L/R)
Audio cable (supplied)
To audio inputs
Audio system
To S-video input
Video cable (supplied)
To video input
TV or monitor with audio/video inputs

**Notes**

- Refer to the owner's manual of your audio system as well.
- Before you connect the DVD player to other equipment, be sure to turn off the power and unplug all of the equipment from the wall outlet before making any connections.
- If you place the DVD player near a tuner or radio, the radio broadcast sound might be distorted. In this case, move the DVD player away from the tuner and radio.
- The output sound of the DVD player has a wide dynamic range. Be sure to adjust the receiver's volume to a moderate listening level. Otherwise, the speakers may be damaged by a sudden high volume sound.
- Turn off the receiver before you connect or disconnect the DVD player's power cord. If you leave the receiver power on, the speakers may be damaged.

**⚠ Warning**

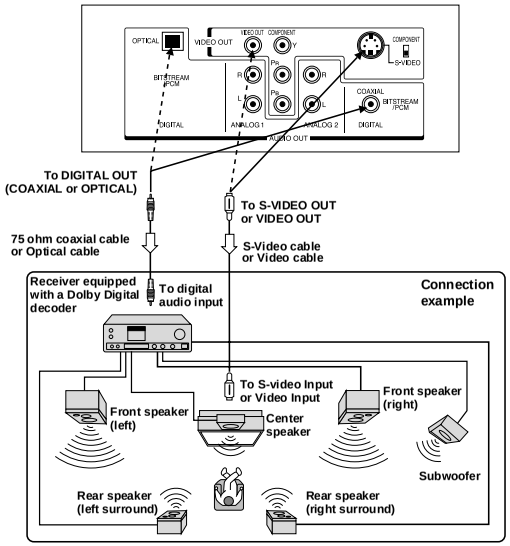
Do not set the Digital Audio Output of this DVD player to "Dolby Digital" unless you are connecting the DIGITAL OUT jack of this DVD player to an AV decoder that has the Dolby Digital decoding function. High volume sound may damage your hearing as well as the speakers (Refer to "Selecting Digital Audio Output" on page 38).

## Connecting to Optional Audio System

### Enjoying Dolby Digital Sound

**You can enjoy the high quality dynamic sound of Dolby Digital, Dolby Pro Logic, and 2 Channel Digital Stereo.**

**Dolby Digital**
Dolby Digital is the surround sound technology used in theatres showing the latest movies, and is now available to reproduce this realistic effect in the home. You can enjoy motion picture and live concert DVD video discs with this dynamic realistic sound by connecting the DVD player to a 6 channel receiver equipped with a Dolby Digital decoder or Dolby Digital processor.




**To enjoy Dolby Digital sound from this DVD player you need the following:**

- DVD recorded in Dolby Digital
- 6 channel receiver equipped with a Dolby Digital decoder, or Dolby Digital processor and power receiver
- 5 speakers and 1 sub woofer

**To enjoy Dolby Digital sound**
You need to select "Dolby Digital" from the SETUP menu.

* Manufactured under license from Dolby Laboratories.
"Dolby", "Pro Logic", and the double-D symbol are trademarks of Dolby Laboratories. Confidential Unpublished works. Copyright 1992-1997 Dolby Laboratories. All rights reserved.

**Notes**

- Refer to the owner's manual of your audio equipment as well.
- Before you connect the DVD player to other equipment, be sure to turn off the power and unplug all of the equipment from the wall outlet before making any connections.
- The output sound of the DVD player has a wide dynamic range. Be sure to adjust the receiver's volume to a moderate listening level. Otherwise, the speakers may be damaged by a sudden high volume sound.
- Turn off the receiver before you connect or disconnect the DVD player's power cord. If you leave the receiver power on, the speakers may be damaged.

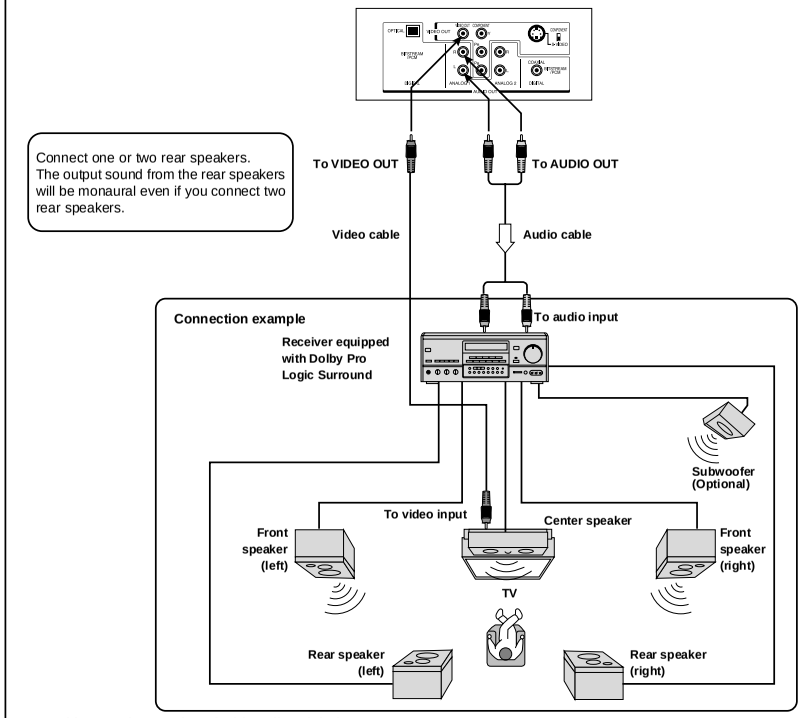




## Connecting to Optional Audio System (Cont'd)

### Enjoying Dolby Pro Logic Surround Sound

**Dolby Pro Logic Surround**
You can still enjoy the excitement of Surround Sound even if your A/V receiver does not offer Dolby Digital decoding. If your A/V receiver has a Dolby Pro Logic decoder, refer to the following connection diagram.


Connect one or two rear speakers. The output sound from the rear speakers will be monaural even if you connect two rear speakers.
To VIDEO OUT
To AUDIO OUT
Video cable
Audio cable
Connection example
To audio input
Receiver equipped with Dolby Pro Logic Surround
Subwoofer (Optional)
To video input
Center speaker
Front speaker (left)
Front speaker (right)
TV
Rear speaker (left)
Rear speaker (right)

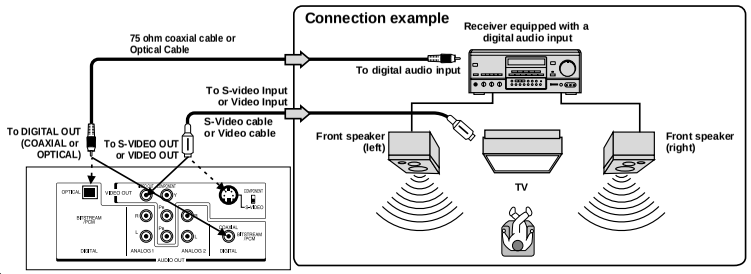
- **With a receiver equipped with Dolby Digital**
  Connect the equipment the same way as described in "Enjoying Dolby Digital Sound" on the previous page. Refer to the receiver's owner's manual and set the receiver so you can enjoy Dolby Pro Logic Surround sound.

**⚠ Warning**
Do not set the Digital Audio Output of this DVD player to "Dolby Digital" unless you are connecting the DIGITAL OUT jack of this DVD player to an AV decoder that has the Dolby Digital decoding function. High volume sound may damage your hearing as well as the speakers (Refer to "Selecting Digital Audio Output" on page 38).

## Connecting to Optional Audio System (Cont'd)

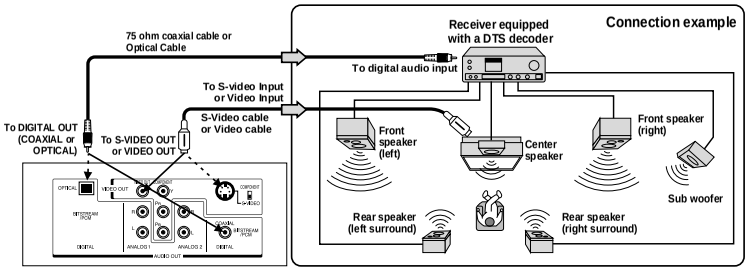
### Enjoying 2 Channel Digital Stereo Sound

**2 Channel Digital Stereo**
You can enjoy the dynamic sound of 2 Channel Digital Stereo by connecting this DVD player to a receiver equipped with a digital audio input and speaker system (right and left front speakers).


Connection example
75 ohm coaxial cable or Optical Cable
Receiver equipped with a digital audio input
To digital audio input
To S-video Input or Video Input
S-Video cable or Video cable
To DIGITAL OUT (COAXIAL or OPTICAL)
To S-VIDEO OUT or VIDEO OUT
Front speaker (left)
Front speaker (right)
TV

### Enjoying DTS Sound

**Introducing DTS Digital Surround™...**a high quality multi channel audio format that transforms existing "home theatre" systems into six discrete channels of exceptionally clear, better-than-compact disc, digital audio performance. And DTS Digital Surround is the only 5.1 surround sound format that can deliver this revolutionary 3-dimensional experience through new music recordings on compact discs, original 5.1 soundtracks on motion picture laserdiscs, and soon, a wide variety of products on DVD.


Connection example
75 ohm coaxial cable or Optical Cable
Receiver equipped with a DTS decoder
To digital audio input
To S-video Input or Video Input
S-Video cable or Video cable
To DIGITAL OUT (COAXIAL or OPTICAL)
To S-VIDEO OUT or VIDEO OUT
Front speaker (left)
Center speaker
Front speaker (right)
Sub woofer
Rear speaker (left surround)
Rear speaker (right surround)

"DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.

**Notes**

- Refer to the owner's manual of your receiver as well.
- Before you connect the DVD player to other equipment, be sure to turn off the power and unplug all of the equipment from the wall outlet before making any connections.
- The output sound of the DVD player has a wide dynamic range. Be sure to adjust the receiver's volume to a moderate listening level. Otherwise, the speakers may be damaged by a sudden high volume sound.
- Turn off the receiver before you connect or disconnect the DVD player's power cord. If you leave the receiver power on, the speakers may be damaged.

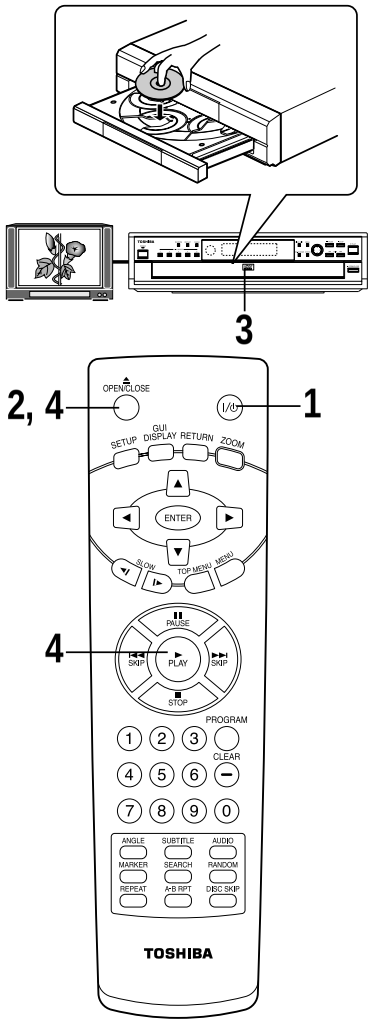






## Basic Playback

**This section explains the basics on how to play back a DVD video disc.**




**Preparations**

- When you want to play back DVD video discs, turn on the TV and select the video input source connected to the DVD player.
- When you want to enjoy the sound of DVD video discs or audio CDs from the audio system, turn on the audio system and select the input source connected to the DVD player.
- For connection details, see pages 12 through 16.
- Set the playback picture size according to the aspect ratio of the connected TV via the SETUP menu (TV Aspect).
- If you do not have the necessary equipment to enjoy Dolby Digital sound, set the Digital Audio Output (via the SETUP menu) to "PCM".

**1 Press POWER.**
The DVD player turns on and the power indicator lights.

**2 Press OPEN/CLOSE.**
The disc tray opens.

- You can open the disc tray by pressing this button even if the DVD player is in standby mode.

**3 Place a disc on the disc tray with the playback side down.**

- There are two different disc sizes. Place the disc in the correct guide on the disc tray. If the disc is out of the guide, it may damage the disc and cause the DVD player to malfunction.
- Do not place anything except 3" discs or 5" discs on the disc tray.
- Discs can be loaded one at a time by pressing DISC SKIP or DISC SELECT (1 - 5) to rotate the carousel.

**Caution**: Do not touch the loading drawer and carousel while they are in motion, and do not attempt to rotate the carousel by hand; doing so could result in incorrect operation of the player and/or damage to the discs.

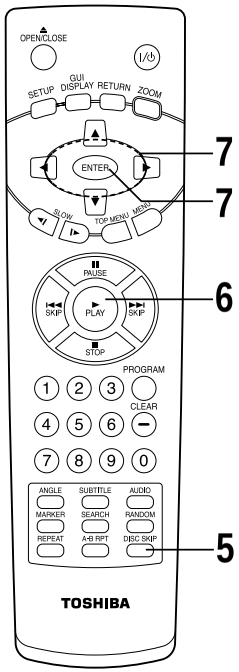
**4 Press OPEN/CLOSE or PLAY to close the loading drawer.**
The disc on the tray 1 is ready to be played back. Playback may begin automatically depending on the disc.
If no disc is loaded on the disc tray 1, select another disc by following step 5.

- Do not close the loading drawer by hand.
- If the disc is placed in upside down (and it is a single sided disc), "NO DISC" or "DISC ERROR" appears on the TV screen.

Operating status indicator

- If you insert an audio CD, the CD indicator lights up on the display. The title number does not appear.
- After playing back all of the chapters in the title, the DVD player automatically stops and returns to the menu screen.

## Basic Playback (Cont'd)

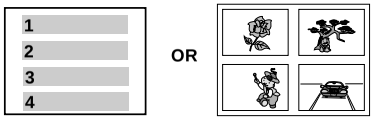



**5** **If you want to select another disc, press DISC SKIP on the remote control once or more, or press DISC SELECT (1 - 5) on the front panel.**
Also you can select a disc in the DVD player directly by using the remote control, press DISC SKIP and then press a number button (1-5) on the remote control within one second.

**6** **Press PLAY to begin playback.**
Playback begins.
You can skip this step if the disc is already playing automatically.

**The menu screen appears on the TV screen.**
In the case of interactive DVDs with playback, a menu screen appears on the TV screen. Perform the following steps:

**7** **Press ▲/▼/◀/▶ and press ENTER, or press the numeric button(s), to select the desired item.**
Playback of the selected item begins.




*Example of interactive DVD On-Screen Menu*

- For further information, refer to the disc jacket of the disc you are playing.

**After operation**
When the unit is not in use, remove the disc and press POWER to turn off the power.

**Notes**
- ❍ Do not move the DVD player during playback. Doing so may damage the disc and the DVD player.
- ❍ Use the OPEN/CLOSE button on the remote control or DVD player to open and close the disc tray. Do not push the disc tray while it is moving. Doing so may cause the DVD player to malfunction.
- ❍ Do not push up the disc tray or put any objects other than discs on the disc tray. Doing so may cause the DVD video player to malfunction.
- ❍ Keep your fingers well clear of the disc tray as it is closing. Be especially careful with children's fingers around the closing disc tray as there is a risk of personal injury.
- ❍ When " ⃠ " appears on the TV screen while a button is pressed, it means that this function is not available on the disc you are playing.
- ❍ Depending on the DVD disc, some operations may be different or restricted. Refer to the jacket or case of the disc you are playing.

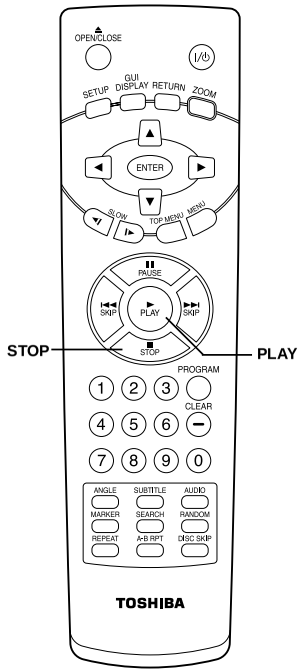
**Video CD**
This contains recordings of pictures and sound whose quality is on a par with that of video tape. This player also supports Video CDs with playback control (Version 2.0).

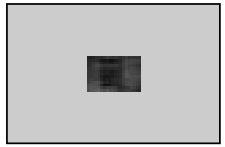
**What is playback control (PBC)?**
If a Video CD has "playback control" written on its disc or jacket, it means that particular scenes or information can be selected for viewing interactively with the TV monitor using the menu screen.





## Basic Playback (Cont'd)



**Screen Saver**

### Stopping Play

**Press STOP during playback.**

### Resume Play

- When play is stopped, the unit memorizes the point where STOP was pressed (RESUME function). Press PLAY and playback will resume from this point.

**Notes**
- ❍ This operation works only with discs for which the elapsed playing time appears in the DVD display window during stop.
- ❍ Resume function will be cleared when the STOP is pressed on the STOP mode.
- ❍ Resume function will be cleared when the power is turned off and then on.
- ❍ Opening the disc tray cancels Resume function.
- ❍ The Resume function may not be available on some DVD discs or Video CDs (version 2.0).

### Last Scene Memory

This player memorizes last scene for the last disc you have watched. Settings remain in memory even if you remove the disc from the player or switch off the player. If you load a disc that has its settings memorized, Latest Stop Position is automatically recalled.

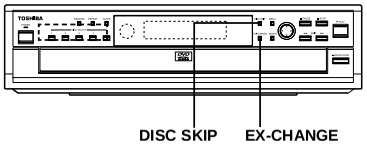
**Notes**
- ❍ Settings are stored in memory for use any time.
- ❍ Switching of the audio mode, etc., is automatic on some discs.
- ❍ This player does not memorize if you switch off the player when a DVD or title menu appears on the TV screen.

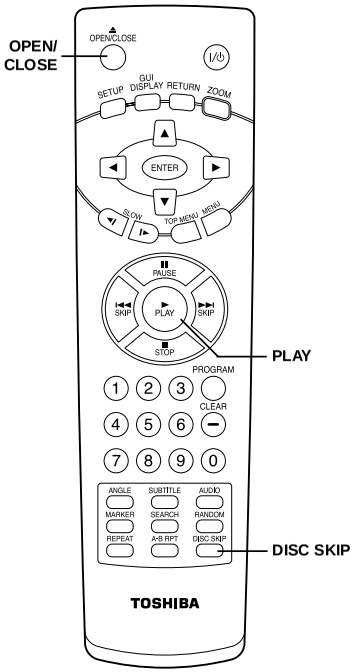
### Screen Saver

The screen saver is useful to prevent your display from becoming damaged.
The screen saver picture appears when you leave the DVD player in stop mode for about 5 minutes.

**Automatic power off function**
After the Screen Saver has been engaged for about 5 minutes, the DVD player will automatically turn itself off.

## Basic Playback (Cont'd)




### Exchanging Discs during Playback

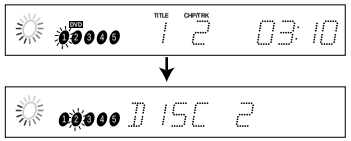
**1 Press EX-CHANGE during playback to open the loading drawer.**

**2 Press DISC SKIP to rotate the disc tray to the desired position.**
The carousel will advance clockwise by one disc tray.
**Note:** The disc tray which was in the play position can not be exchanged.

**3 Exchange the discs and press EX-CHANGE or OPEN/CLOSE to close the loading drawer.**

### Skipping Discs

**Press DISC SKIP during playback or in the stop mode.**
- Each time the button is pressed, the next disc tray is selected.

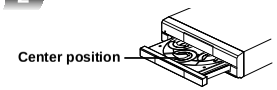



**Notes**
- When the DISC SKIP is pressed during playback or in the stop mode, the disc tray advances and playback begins from the beginning of the next disc.
- If there is no disc on the selected disc tray, the disc tray of the next number will be selected.
- When DISC SKIP is pressed during playback of disc 5, playback of disc 1 will start.

### Exchanging the Disc and Starting Playback

**1 Press OPEN/CLOSE during playback or in the stop mode.**
Play is stopped (if pressed during playback), the loading drawer opens and the disc tray which was in the play position comes to the center position.

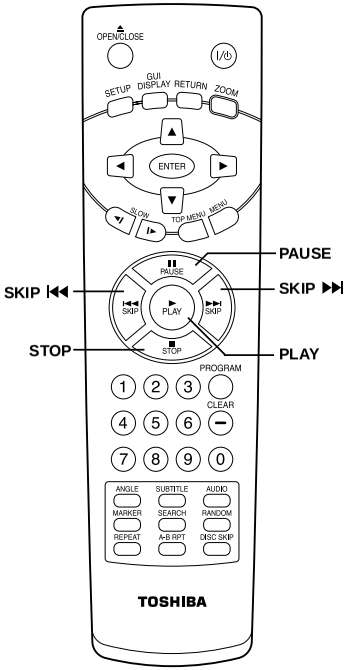
**2 Exchange the disc in the center position.**




**3 Press OPEN/CLOSE or PLAY again.**
The loading drawer closes, the disc tray returns to the play position and playback begins from the new disc.



## Special Playback




### Still Picture (Pause)

**Press PAUSE during playback.**
- DVD/Video CD
  The player will be placed in the still picture mode.
- CD
  Playback will be paused.

### Frame Advance (DVD and Video CD only)

**Press PAUSE during still playback.**
(Each time you press PAUSE, the picture advances one frame)

**To resume normal playback, press PLAY.**

### Skipping Chapters and Tracks Forward or Back

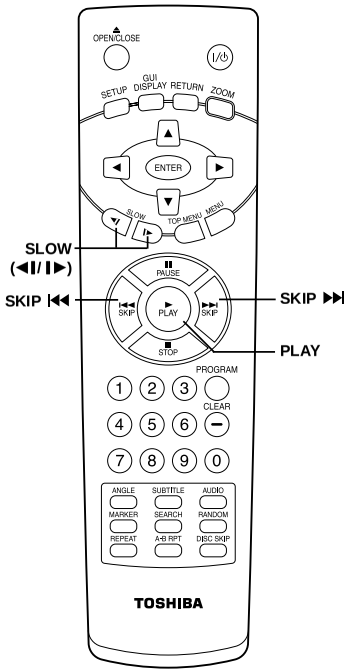
**Skipping forward**
**Press SKIP ⏭ during playback.**
A chapter (DVD) or a track (CD/Video CD) is skipped each time this button is pressed.

**Skipping back**
**Press SKIP ⏮ during playback.**
- When this button is pressed once midway through a chapter/track, the player returns to the start of that chapter/track. When it is pressed repeatedly, a chapter/track is skipped each time the button is pressed.

**For your reference:**
- When ⏮ SKIP ⏭ is pressed during menu play of video CDs equipped with PBC (Version 2.0), a menu screen may appear.

## Special Playback (Cont'd)

You can play back discs at various speeds.




### To Scan at Fast Forward or Fast Reverse Playback.

**Press and hold SKIP ⏮ or ⏭ button for about two seconds during playback.**

[TV screen]

◀◀X2 ▶▶X2

- The image advances (or reverses) is relatively slow at first. When the button is pressed again, the speed increases. (Each time the button is pressed, the speed increases up to 4 steps (DVD) or 3 steps (CD/Video CD).)
- The speed will be maintained even after the button is released.

**To return to normal playback, press PLAY.**

**Note**

- The DVD player does not play back sound during high speed reverse and forward playback of DVD video discs. However, the DVD player plays back sound during fast forward or fast reverse playback of audio CDs.
- Subtitles do not appear on the screen during scan playback.

### Playing in Slow-Motion (DVD and Video CD only)

**Press SLOW ◀I or I▶ during playback.**
The playback speed is reduced to 1/16 of the normal speed.

[TV screen]

◀I 1/16 I▶ 1/16

- The speed that the image advances (or reverses) is slow at first. When the button is pressed again, the speed increases. (Each time the button is pressed, the speed increase up to 4 steps.)
- The speed will be maintained even after the button is released.

**To return to normal playback, press PLAY.**

**Notes**

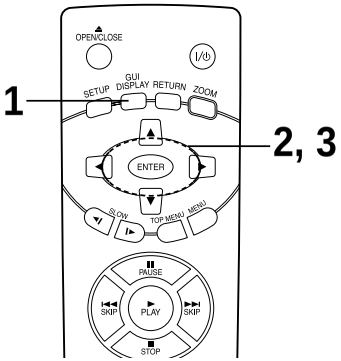
- The sound is muted during slow-motion playback.
- The Slow-Motion playback in reverse is not applicable for Video CDs.
- The SLOW buttons do not function with Audio CDs.





## General Information about GUI Menu

This unit features an icon based GUI menu showing disc information (title/chapter/track number, elapsed playing time, audio/subtitle language, angle, and sound) and player information (repeat play, play mode, marker, etc.). Some icons only show the indicated information. Other icons allow settings to be changed.




### Common procedures

**1 Press GUI DISPLAY during playback.**

- Title function can be accessed from the stop mode.

**2 Press ▲/▼ to select the desired item.**

- The current selected item is highlighted by a yellow frame around its menu icon.

**3 Press ◀/▶ to select the desired setting.**

- When numbers are displayed (e.g. title number), the numeric buttons can also be used for setting instead of ◀/▶.
- For some functions, the setting will be registered immediately; for others, ENTER must be pressed.

**To clear the GUI Menu display, press GUI DISPLAY again.**

**Examples of GUI Menu Icons.**
(The screens may differ depending on the disc contents.)

(DVD GUI)

(CD/Video CD GUI)

(Video CD (Version 2.0))

(DVD and CD GUI)

## Detailed Description of each GUI Menu Icon

**You can view information about a disc and its operational status on the TV screen.**

| Press GUI DISPLAY during playback. [TV screen] DVD GUI | FUNCTION (Press ▲/▼ to select desired item) | SELECTION METHOD |
|---|---|---|
| 1 | Indicates the current title number; **and to jump to a desired title number** | ◀/▶, or Numeric ENTER |
| 1 | Indicates the current chapter number; **and to jump to a desired chapter number** | ◀/▶, or Numeric ENTER SKIP |
| 0:16:57 | Indicates the elapsed time; **and directly select scenes by the desired time.** | Numeric ENTER |
| 1 ENG DD 6 CH | Indicates the current audio soundtrack language, encoding method, channel number; **and to change the settings.** | ◀/▶, AUDIO |
| OFF | Indicates the current subtitles language; **and to change the setting.** | ◀/▶, SUBTITLE |
| 1 | Indicates the current angle number; **and to change the angle.** | ◀/▶, ANGLE |
| NORM. | Indicates the current sound enhancement (NORMAL or 3D SURROUND); **and to change the setting.** | ◀/▶ |

| Press GUI DISPLAY during playback. [TV screen] CD/Video CD GUI | FUNCTION (Press ▲/▼ to select desired item) | SELECTION METHOD |
|---|---|---|
| 1 | Indicates the current track number; **and to jump to the desired track number** | ◀/▶, or Numeric ENTER SKIP |
| 0:16:57 | Indicates the elapsed time; **(Display only)** | ——— |
| STER. | Indicates the current audio (STEREO, LEFT, RIGHT); **and to select a desired audio channel.** | ◀/▶, AUDIO |
| NORM. | Indicates the current sound enhancement (NORMAL or 3D SURROUND); **and to change the setting (Audio CD only).** | ◀/▶ |

**Note**

- Some DVD discs may not provide all of the above GUI menu icons.



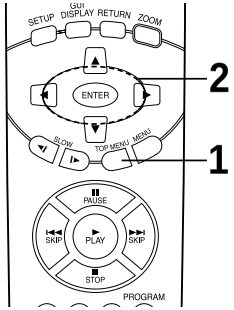




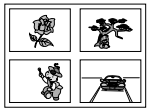
## Using a Title Menu

Some movie discs may contain two or more titles. If the disc has a title menu recorded on it, the TOP MENU button can be used to select the movie title and related menu options. (The details of operation differ depending on the disc used.)

- Selecting a title may not be possible on certain DVD discs.



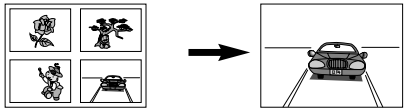

**1 Press TOP MENU.**
A list of the titles on the disc is displayed.



Pressing TOP MENU again to resume play from the location when TOP MENU was first pressed.

- Resume play may not be possible on certain discs.

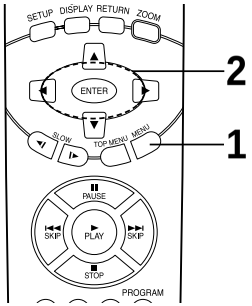
**2 Press ▲/▼/◀/▶ and press ENTER or PLAY, or press the numeric button(s), to select a desired title.**



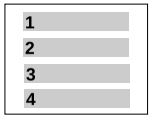
The selected title now begins playback.

## Using a DVD Menu

Some DVDs have unique menu structures called DVD menus. For example, DVDs programmed with complex contents may provide guide menus, and those recorded with various languages may provide menus for audio and subtitle language. Although the DVD menu's contents and operation differ from disc to disc, the following explains basic operation when this feature is available.



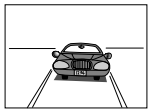

**1 Press MENU during playback.**
The DVD menu encoded on the disc is displayed.




Pressing MENU again resumes playback from the scene when MENU was first pressed.

- Resume playback may not be possible on certain discs.

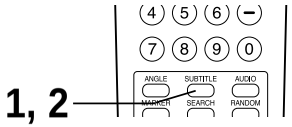
**2 Press ▲/▼/◀/▶ and press ENTER, or press the numeric button(s), to select a desired item.**



The selected item is now displayed.

## Changing Subtitle Language

It is possible to change the subtitle language to a different language from the one selected at the initial setup. (See page 33 for further info.)
This operation functions only on discs that include multiple subtitle languages.




**Notes**

- In some cases, the subtitle language is not changed to the selected one immediately.
- When a disc supporting closed captioned data is played, the subtitle and the closed caption data may overlap each other on the TV screen. In this case, turn the subtitle off.
- When a desired language can not be selected even after pressing the button several times, the language is not available on the disc.
- When the power is turned on or the disc is removed, subtitles will appear in the language selected at the initial setting. If this language is not recorded on the disc, the disc's priority language appears.

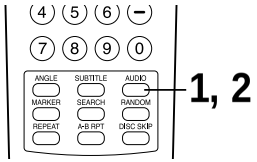
**1 Press SUBTITLE during playback.**
When no subtitles are available, "OFF" will be displayed instead of the language number.

**2 Press SUBTITLE repeatedly until the desired language is selected.**
The number corresponding to the subtitle language being played back is displayed.

**To eliminate the On Screen Subtitles.**
Press SUBTITLE repeatedly to select OFF at step 2.

## Changing Audio Soundtrack Language

It is possible to change the audio soundtrack language (or encoding method, channel number) to a different language from the one selected at the initial setup. (See page 33 for further info.) This operation works only with discs on which multiple audio soundtrack languages are included.
It may be possible to change the audio channel in case of audio CD.

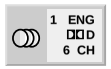



**Notes**

- When the desired language is not selected even after pressing the AUDIO button several times, the language is not available on the disc.
- When the power is turned on or the disc is removed, the language heard is the one selected at the initial setup. If this language is not mastered on the disc, only the language available on the disc will be heard.
- Some discs may not respond to Audio feature.

**• DVD**

**1 Press AUDIO during play.**
Number of the audio soundtrack language being played back.




**2 Press AUDIO repeatedly until the desired language (or encoding method, channel number) is selected.**

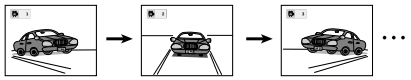
**• CD/Video CD**

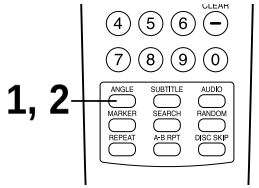
**1 Press AUDIO during playback.**

**2 Press AUDIO repeatedly until the desired sound is selected.**

## Viewing Multi Angle Discs

Some DVDs may contain scenes which have been shot simultaneously from a variety of different angles. You can view each of these different angles using the ANGLE button. (The recorded angles differ depending on the disc used.)






**1 Press ANGLE during playback.**

Number of angle being played back is displayed.

**2 Press ANGLE repeatedly until the desired angle is selected.**

**For your reference**

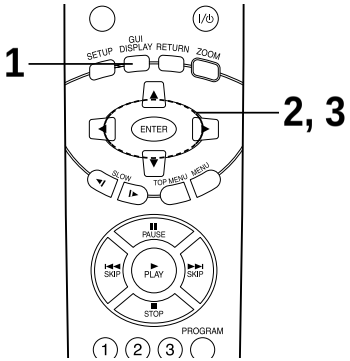
- The ANGLE indicator will blink in the DVD display window during scenes recorded at different angles as an indication that angle switching is possible.
- The angle number can be programmed beforehand; the angle will switch to the selected number when the ANGLE indicator blinks.

**Note**

- This function only works for discs that include scenes recorded from multiple angles.

## Producing a 3D Surround Effect

This unit can produce a 3D Surround effect, using 3D Surround Sound technology, which simulates multi-channel audio playback from two conventional stereo speakers instead of the five or more speakers normally required to listen to multi-channel audio from a home theatre. This feature works with DVD discs encoded with Dolby Pro Logic and Dolby Digital audio tracks.




**1 Press GUI DISPLAY during playback.**

**2 Press ▲/▼ to select SOUND item.**

**3 Press ◀/▶ repeatedly until the desired sound is selected.**
Each time this button is pressed, the icon display changes.

**Notes**

- This 3D Surround effect may not be available on some DVD discs, including those recorded with a mono audio soundtrack.
- Turn off the TV surround sound and other surround effects when using this 3D surround effect.
- For best 3D Surround effect using only two speakers it is recommended that the two speakers be positioned approximately 8' to 10' apart, and the listening position should be 8' to 10' away from the speakers.

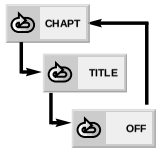
## Repeat Play

### Repeating viewing (listening)

**Press REPEAT during playback.**
Each time this button is pressed, the icon display changes as shown below and the disc will repeat a chapter or title (DVD) or a track (CD/Video CD).

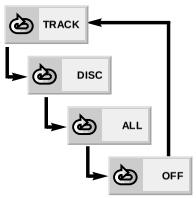
**• DVD**

Repeat of chapter being played
Repeat of title being played
Cancels repeat mode (normal play)



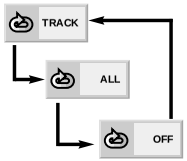

**• CD/Video CD**

Repeat of track being played
Repeat of entire current disc contents
Repeat of entire all disc contents
Cancels repeat mode (normal play)




**To enjoy program repeat play (CD/Video CD)**
If REPEAT is pressed during program play, repeat play is operated as below.

Repeat of the current programmed track
Repeat of all programs
Cancel repeat mode (Program play)




**To return to normal play**
Press REPEAT several times until “OFF” is displayed.

### Repeating sections between two specific points (A-B repeat)

**1** **While the disc is playing, press A-B RPT at the point where repeat play is to start (A).**

- You can select “OFF” at this step by pressing CLEAR.

**2** **Press A-B RPT during playback at the point where repeat play is to be concluded (B).**

Repeat play of the selection between points A and B starts.

**To return to normal play**
Press A-B RPT once “OFF” is displayed.

**Notes**

- Repeat play works only with discs for which the elapsed playing time appears in the DVD display window during playback.
- Repeat play may not work correctly with some DVDs and some Video CDs.
- A-B repeat play works only within a DVD title or a CD/Video CD track .
- Some subtitles proceeding point A or B may not be displayed.

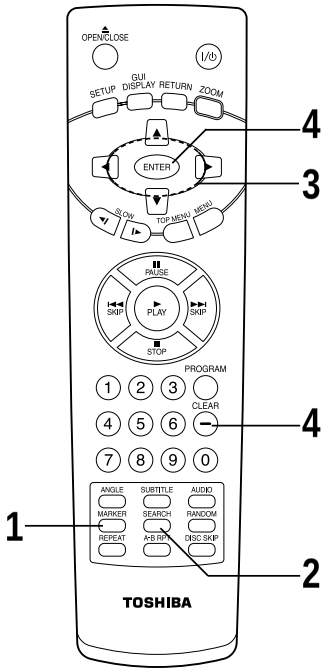






## Storing Markers in Memory to be Viewed or Listened to again

Storing a MARKER in the DVD memory is similar to marking your page in a book. It allows you to quickly return to any point on the disc.




### Storing a marker in the memory

**1** **Press MARKER during play at the starting point to be viewed (listened to) again.**

Indicates “1/9” is stored in the memory.
Up to 9 marks can be stored in the memory.

### Recalling/Clearing a marker

**2** **Press SEARCH during playback.**
The MARKER SEARCH menu will appear on the TV screen.

**3** **Press ◀/▶ to select the marker to be recalled/cleared.**

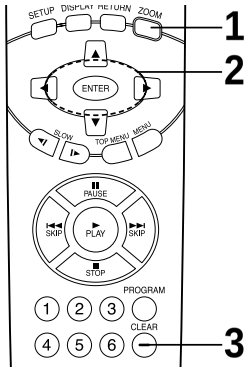
**4** **Press ENTER to recall a marker.**
**Or press CLEAR to clear a marker.**
Playback resumes from the point corresponding to the selected marker.

**Notes**

- These operations work only with discs for which the elapsed playing time appears in the DVD display window during playback or stop operation.
- Some subtitles recorded around the marker may not be displayed (DVD).
- All the markers are cleared when the power is turned off or the disc is removed.
- The marker cannot be memorized when the DVD or title menu is displayed on the TV screen.

## Zoom Feature

The Zoom function allows you to magnify the video image and to navigate through the enlarged image.




**1 Press ZOOM during playback or still playback to activate the Zoom function.**
If you press ZOOM repeatedly, the magnification level increases (6 steps).

**2 Press ▲/▼/◀/▶ buttons to move through the zoomed picture.**

**3 Press CLEAR to resume normal playback.**

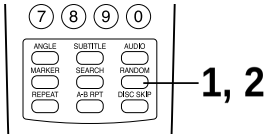
### Notes

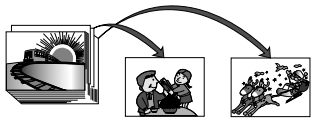
- Some discs may not respond to the Zoom feature.
- Zoom does not work on subtitles or menus included on DVD video discs.

## Random Play

**Note:** This function only works with karaoke DVD, Audio CD and Video CD. The random feature does not work with DVD movies.

You can playback titles or tracks in random order. (Random playback)
The DVD player automatically selects the titles on a DVD video karaoke disc and plays them randomly.



**Random play (Karaoke DVD, Video CD or CD)**

**1 Press RANDOM repeatedly until desired random mode is selected during playback or stop mode.**
The unit automatically begins Random Playback and RANDOM (1-3) appears on the TV screen.

- RANDOM1: Plays all the tracks on a single disc in random order and then stops.
- RANDOM2: Plays all the tracks on current disc in random order and then plays all the tracks on each succeeding disc in random order and then stops.
- RANDOM3: Plays 2 tracks randomly from a disc and then plays 2 tracks randomly from a different disc until all tracks on all discs have been played.

**2 To return to normal playback, press RANDOM repeatedly until NORMAL appears on the TV screen.**
The RANDOM indicator in the DVD display window disappears.

### Notes

- Random playback may not be possible on certain discs.
- If you press the SKIP ⏮ or ⏭ button during random playback, the DVD player skips to another track and starts random playback.

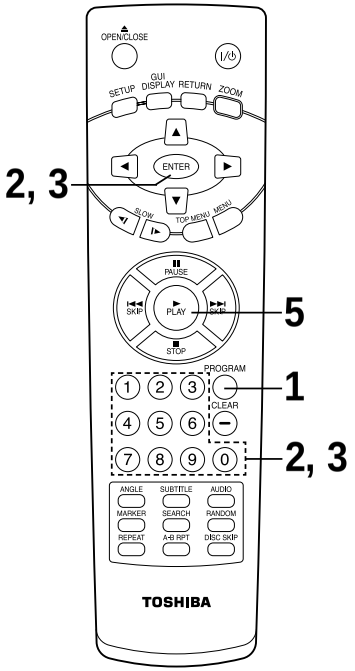




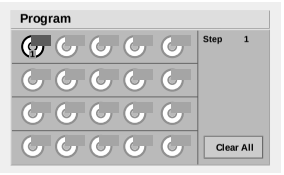
## Program Play

The player plays the tracks on the disc in the order you specify.

**Note:** Program play function is possible only with audio CDs. It does not work with DVD movie discs and Video CDs (Version 2.0).




**1 Press PROGRAM on the stop mode.**
The program menu screen appears on the TV.




• To exit the screen, press PROGRAM or RETURN.

**2 Enter the disk number using the numerical keys (1-5) and then press ENTER.**

**3 Enter the track number using the numerical keys (0-9) and then press ENTER.**
The next area is selected.

**4 Repeat steps 2 to 3.**
Up to 20 tracks can be programmed.

**5 Press PLAY to exit the menu.**
The selected tracks are stored in the player memory and playback begins with the first programmed sequence.

**After playback of all programmed tracks is completed, playback is stopped**

### Clearing the program

**● To clear the programmed tracks one by one**

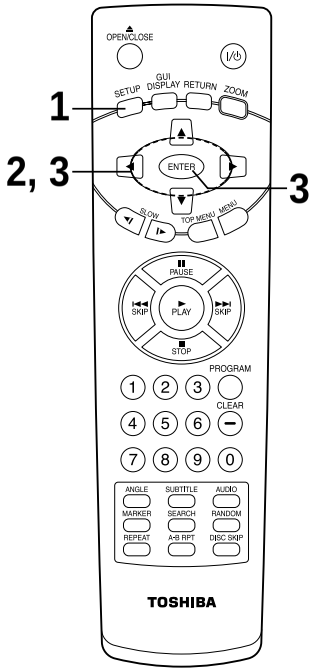
Press ▲/▼/◀/▶ to select the unwanted track and then press CLEAR.

**● To clear all the programmed tracks**

Press ▲/▼/◀/▶ to select “Clear All” and then press ENTER.
Press PROGRAM or RETURN to exit the screen.
(The programs are also cleared when the power is turned off or the disc is removed.)

## Selection of Initial Settings

Once the initial settings have been completed, the player can always be operated under the same conditions (especially with DVD discs). The settings will be retained in the memory until they are changed, even if the power is switched off.




### Selection of initial settings

**1 Press SETUP in the stop or playback mode.**
The SETUP menu is displayed.

**2 Press ▲/▼ to select the desired item.**
The screen will show the current setting for the selected item, and the alternate setting(s).

- Disc Audio (see page 33.)
- Disc Subtitle (see page 33.)
- Disc Menu (see page 33.)
- Rating (see page 34.)
- Password (see page 35.)
- TV Aspect (see page 36.)
- Menu Language (see page 37.)
- Digital Audio Output (see page 38.)
- Others (see page 39.)

**3 Press ► and then ▲/▼ to select the desired setting and press ENTER.**
- Some items require additional steps. (See their respective page.)

When the alternate setting is selected the screen returns to the Initial Settings display.

**To exit SETUP menu**
Press SETUP, RETURN or PLAY.



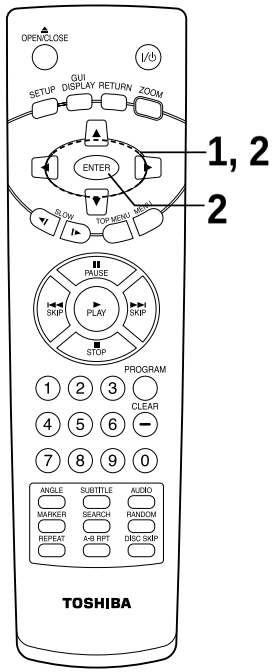




## Selecting Disc Languages

To select the audio soundtrack language, subtitle language and the language used in title menus or DVD menus.

When you play back a DVD video disc, the DVD player automatically displays the pre-selected subtitle language if it is included on the disc.




**1 At the setup screen, press ▲/▼ to select "Disc Audio" and press ►.**

**2 Press ▲/▼ to select the desired language and then press ENTER.**

**Original** : The native, or default language of each disc will be selected.
**English** : English will be Selected.
**Other** : Another language can be selected. You can input a 4-digit language code. (Refer to the language codes on page 40. Press CLEAR if an incorrect language code is entered.)

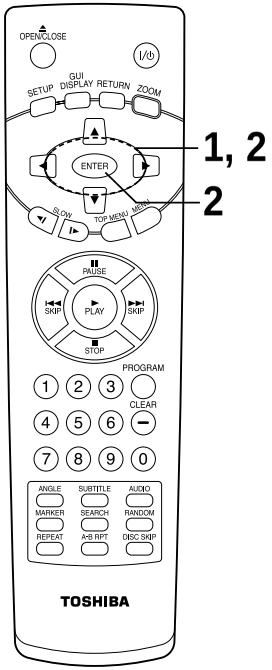
The "Disc Subtitle" and "Disc Menu" settings are selected by the same method.

**Note**
❍ If the language selected is not available on the disc, the native, or default language designated by each disc will be selected.

## Selecting Rating Level and Password

To prohibit the playing of specified DVDs which are unsuitable for children.

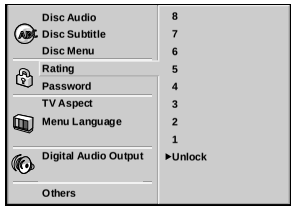
- Some DVD discs contain a restriction level which enables parents to remove scenes or prevent playback of discs by children. DVD players are equipped with a password designed to prevent children from changing the restriction level settings.



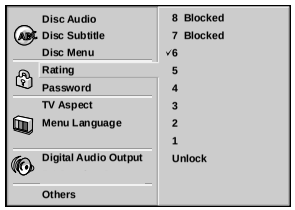

**For your reference**
In order for this DVD Player to maintain a permanent Parental Lock selection, you must enter a 4 digit personal security code.

### Selecting rating level (DVD only)

**1 From the SETUP screen, press ▲/▼ to select "Rating" and press ▶.**




**2 Press ▲/▼ to select the desired level and press ENTER.**




You cannot play DVD video discs rated higher than the level you selected unless you cancel the parental lock function. For example, when you select level 7, discs rated higher than level 7 are blocked and cannot be played.

The parental lock level is equivalent to the following USA movie ratings.

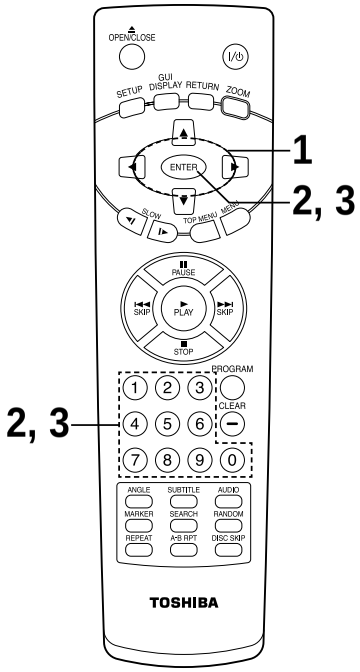
Level 7: NC-17 Level 6: R Level 4: PG 13
Level 3: PG Level 1: G

- Some titles do not match with the rating level described above.

If you change the level and enter a password, playback of all DVDs with ratings higher than your selection will be blocked, unless the correct password is entered again. For example: if you change the level to "5", the DVD player will not play discs with ratings of "6", "7" or "8" unless the correct password is entered on the remote control.



## Selecting Rating Level and Password (Cont'd)




### To clear your 4-digit password

If you forget your password, to clear the current password, follow the procedure below.

***1* Press SETUP.**
The SETUP menu is displayed.

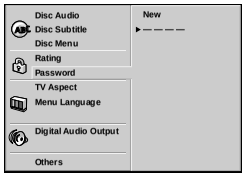
***2* Enter 6-digit number "210499" by pressing number buttons.**
The 4-digit password is cleared. "P CLr" appears on the display.

***3* Enter a new password.**
Refer to "Setting your password" section on the right.

### Setting your password (DVD only)

If you change the rating level to "7" or lower, you must enter a 4-digit "password" to prevent playback of discs with higher ratings.

**1 At the SETUP screen, press ▼ to select "Password" and press ▶.**




**2 Input a 4-digit password and press ENTER.**
Example : 1234
Do not forget your password.

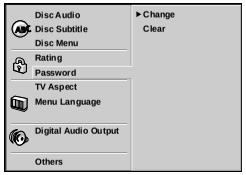
**3 Input the 4-digit password again and press ENTER to verify.**
Setting is completed.

- The rating is locked. Any disc whose rating is higher than the setting, cannot be played back unless the correct password is entered, and parental lock level is modified.

### To change/clear memorized password

**1 At the SETUP screen, press ▼ to select "Password" and press ▶.**

**2 Input your password and press ENTER.**

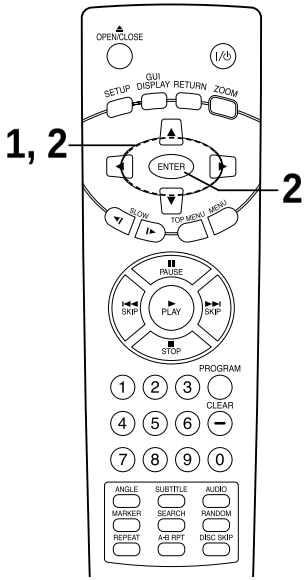



**3 To change or clear your password, press ▲/▼ to select the "Change" or "Clear" and press ENTER.**

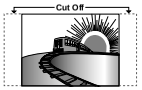
To change the rating level/password, follow the steps on page 34-35 again.

## Selecting TV Aspect

Select the appropriate screen type according to your TV set; conventional size screen (4:3) or wide-screen (16:9).



4:3 Letterbox

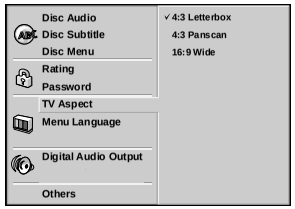



4:3 Panscan

16:9 Wide

**1** **At the SETUP screen, press ▲/▼ to select "TV Aspect" and press ▶.**

**2** **Press ▲/▼ to select the desired Aspect and press ENTER.**




**4:3 Letterbox :** Select when a conventional TV set is connected widescreen. Video material not formatted to the Pan & Scan style is played back in the letterbox style (black bands appear at top and bottom of screen).

**4:3 Panscan :** Select when a conventional TV set is connected widescreen. Video material formatted in the Pan & Scan style is played back in that style (Full screen display). However, the left and right edges of the original theatrical presentation will be cropped off.

**16:9 Wide :** Select when a wide-screen TV set is connected. Played in "FULL" size. (Setting the wide-screen TV to "FULL" mode is also necessary.) Displays a full widescreen picture or slightly letterboxed picture depending upon the aspect ratio of the original theatrical content.

* Each screen shows an example when the video material for a wide-screen is played.

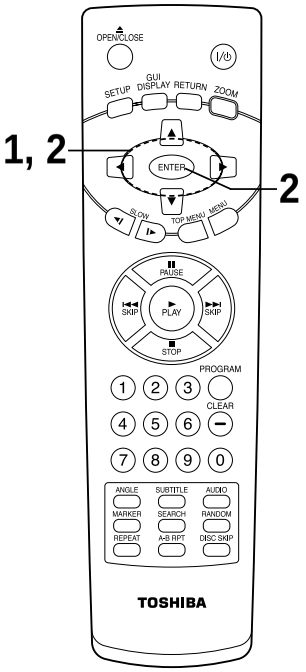




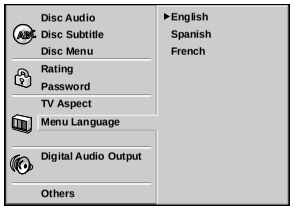


## Selecting Menu Language

Selects language for SETUP menus and on-screen displays.



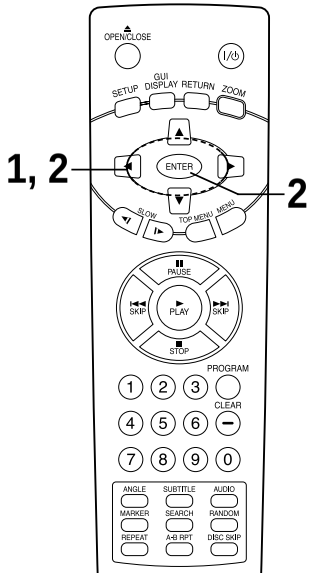

**1** **From the SETUP screen, press ▲/▼ to select "Menu Language" and press ▶.**




**2** **Press ▲/▼ to select the desired Language and press ENTER.**

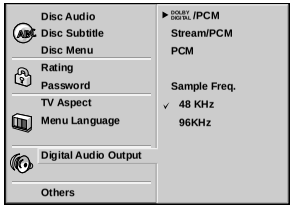
## Selecting Digital Audio Output

Each DVD disc has a variety of audio output options. Set the player's Digital Audio Output according to the type of audio system you use.




| Playback Disc | OUTPUT | | |
|---|---|---|---|
| | Stream/PCM | Dolby Digital/ PCM | PCM only |
| 96 kHz Linear PCM DVD | PCM | PCM | PCM |
| DTS DVD | DTS bit Stream | DTS bit Stream | DTS bit Stream |
| Dolby Digital DVD | Dolby Digital bit Stream | Dolby Digital bit Stream | PCM |
| MPEG DVD | MPEG bit Stream | PCM | PCM |
| Audio CD/ Video CD | PCM | PCM | PCM |
| DTS Audio CD | DTS bit Stream | DTS bit Stream | DTS bit Stream |

**1 At the SETUP screen, press ▲/▼ to select Digital Audio Output and press ▶.**




**2 Press ▲/▼ to select the desired output and press ENTER.**
You can select Digital Audio Output or Sampling Frequency item by pressing ENTER.

### ■ Digital Audio Output

**DOLBY DIGITAL/PCM:** Select "DOLBY DIGITAL/PCM" if an active digital output is supplied to a Dolby Digital decoder, (or an amplifier or other equipment with Dolby Digital decoder).

**Stream/PCM:** Select "Stream/PCM" if an active digital output is supplied to an amplifier or other equipment with DTS decoder, Dolby Digital decoder and MPEG decoder.

**PCM:** Select "PCM" if an active digital output is supplied to an amplifier or other equipment with linear PCM only (or MD recorder or DAT deck).

### ■ Sampling Frequency

To change the Sample Frequency setting, first select the desired digital audio output type as indicated above.
If your A/V receiver or surround processor is NOT capable of handling 96kHz signals, select the 48kHz option. When this choice is made, this unit will automatically convert any 96kHz signals to a 48kHz output so that your system is capable of decoding them.
If your A/V receiver or surround processor is capable of handling 96kHz signals, select the 96kHz option. When this choice is made, this unit will pass each type of signal through without any further processing.

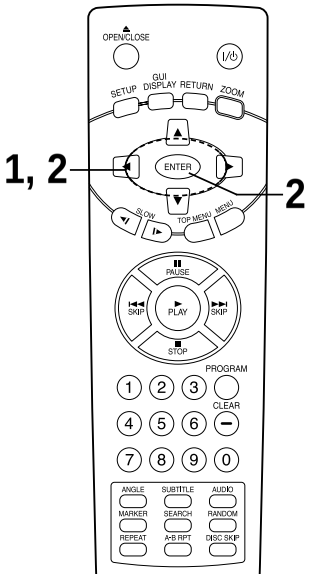
**Notes**

- When you are not using the player's digital audio output, don't select any of the options.
- If an active digital audio output signal is supplied to a receiver or other equipment without a corresponding digital decoding capability, a very loud noise may be produced which could permanently damage the speakers.
- The DTS DVD disc sound is played back only when the DVD player is connected to a receiver with a DTS decoder.



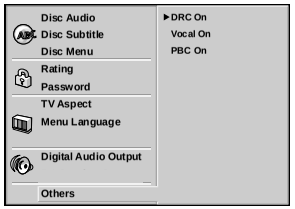
## Others (DRC/Vocal/PBC)

The DRC, Vocal and PBC settings can be changed.




**About DRC (Dynamic Range Compression)**
With the DVD format you have the opportunity to listen to program's soundtrack in the most accurate and realistic presentation possible, thanks to the use of digital audio technology. However, in certain instances you may wish to slightly compress the dynamic range of the audio output (the difference between the loudest sounds and the quietest ones) so that you may listen to a movie at a lower volume and still retain dialogue intelligibility.

**1 At the SETUP screen, press ▲/▼ to select "Others" and press ▶.**




**2 Press ▲/▼ to select the desired items and press ENTER.**
The setting of the selected item are changed between On and Off.

### ■ DRC (Dynamic Range Compression) On/Off

**On:** Select this option to turn on the Dynamic Range Compression circuitry so that dialogue remains clear even at low volume levels.
**Off:** Select this option to turn off the Dynamic Range Compression and have the soundtrack presented exactly as it was created.

### ■ Vocal On/Off

Set to On only when a multi-channel karaoke DVD is being played. The karaoke channels on the disc will then be mixed into a normal stereo sound.

### ■ PBC On/Off

Set Playback Control (PBC) to On or Off

**On:** Video CDs with PBC are played back according to the PBC.
**Off:** Video CDs with PBC are played back in the same way as Audio CDs.

**Notes**

- The DRC function works only during playback of Dolby Digital recorded discs.
- The level of Dynamic Range Compression may vary depending on the DVD disc.
- When playing karaoke, connect appropriate audio equipment (such as an amplifier) to the DVD video player.

## Table of Languages and Their Abbreviations

Enter the appropriate code number for the initial settings “Audio”, “Subtitle” and/or “Menu” (See page 33).

| Code | Language | Code | Language | Code | Language | Code | Language |
|---|---|---|---|---|---|---|---|
| 6565 | Afar | 7079 | Faroese | 7678 | Lingala | 8375 | Slovak |
| 6566 | Abkhazian | 7082 | French | 7679 | Laothian | 8376 | Slovenian |
| 6570 | Afrikaans | 7089 | Frisian | 7684 | Lithuanian | 8377 | Samoan |
| 6577 | Ameharic | 7165 | Irish | 7686 | Latvian, Lettish | 8378 | Shona |
| 6582 | Arabic | 7168 | Scots Gaelic | 7771 | Malagasy | 8379 | Somali |
| 6583 | Assamese | 7176 | Galician | 7773 | Maori | 8381 | Albanian |
| 6588 | Aymara | 7178 | Guarani | 7775 | Macedonian | 8382 | Serbian |
| 6590 | Azerbaijani | 7185 | Gujarati | 7776 | Malayalam | 8385 | Sundanese |
| 6665 | Bashkir | 7265 | Hausa | 7778 | Mongolian | 8386 | Swedish |
| 6669 | Byelorussian | 7273 | Hindi | 7779 | Moldavian | 8387 | Swahili |
| 6671 | Bulgarian | 7282 | Croatian | 7782 | Marathi | 8465 | Tamil |
| 6672 | Bihari | 7285 | Hungarian | 7783 | Malay | 8469 | Telugu |
| 6678 | Bengali; Bangla | 7289 | Armenian | 7784 | Maltese | 8471 | Tajik |
| 6679 | Tibetan | 7365 | Interlingua | 7789 | Burmese | 8472 | Thai |
| 6682 | Breton | 7378 | Indonesian | 7865 | Nauru | 8473 | Tigrinya |
| 6765 | Catalan | 7383 | Icelandic | 7869 | Nepali | 8475 | Turkmen |
| 6779 | Corsican | 7384 | Italian | 7876 | Dutch | 8476 | Tagalog |
| 6783 | Czech | 7387 | Hebrew | 7879 | Norwegian | 8479 | Tonga |
| 6789 | Welsh | 7465 | Japanese | 7982 | Oriya | 8482 | Turkish |
| 6865 | Danish | 7473 | Yiddish | 8065 | Panjabi | 8484 | Tatar |
| 6869 | German | 7487 | Javanese | 8076 | Polish | 8487 | Twi |
| 6890 | Bhutani | 7565 | Georgian | 8083 | Pashto, Pushto | 8575 | Ukrainian |
| 6976 | Greek | 7575 | Kazakh | 8084 | Portuguese | 8582 | Urdu |
| 6978 | English | 7576 | Greenlandic | 8185 | Quechua | 8590 | Uzbek |
| 6979 | Esperanto | 7577 | Cambodian | 8277 | Rhaeto-Romance | 8673 | Vietnamese |
| 6983 | Spanish | 7578 | Kannada | 8279 | Rumanian | 8679 | Volapük |
| 6984 | Estonian | 7579 | Korean | 8285 | Russian | 8779 | Wolof |
| 6985 | Basque | 7583 | Kashmiri | 8365 | Sanskrit | 8872 | Xhosa |
| 7065 | Persian | 7585 | Kurdish | 8368 | Sindhi | 8979 | Yoruba |
| 7073 | Finnish | 7589 | Kirghiz | 8372 | Serbo-Croatian | 9072 | Chinese |
| 7074 | Fiji | 7665 | Latin | 8373 | Singhalese | 9085 | Zulu |



## Disc Requirements/Copyright Information

### Playable Discs

This DVD player can play back the following discs.

| | Disc mark | Contents | Disc size | Maximum playback time |
|---|---|---|---|---|
| DVD video discs | DVD VIDEO | Audio+Video (moving pictures) | 12 cm | Approx. 4 hours (single sided disc) |
| | | | | Approx. 8 hours (double sided disc) |
| | | | 8 cm | Approx. 80 minutes (single sided disc) |
| | | | | Approx. 160 minutes (double sided disc) |
| Video CDs | COMPACT disc DIGITAL VIDEO | Audio+Video | 12 cm | 74 minutes |
| | | | 8 cm | 20 minutes |
| Audio CDs | COMPACT disc DIGITAL AUDIO | Audio | 12 cm | 74 minutes |
| | | | 8 cm | 20 minutes |

**CD-R/RW discs are also available.**
You cannot playback discs other than those listed above. (CD-ROM, CD-Extra, CD-G, photo CD, and CD-i discs can not be played on this DVD player.)
CD-R/RW discs recorded by CD-DA method can be played. Some CD-R/RW discs may be incompatible.
You cannot play discs of DVD-RAM, DVD-RW, etc., even if they may be labeled marks listed above.

### Region Management Information

Region Management Information: This DVD Player is designed and manufactured to respond to the Region Management Information that is recorded on a DVD disc. If the Region number described on the DVD disc does not correspond to the Region number of this DVD player, this DVD player cannot play that disc.

The Region number of this DVD player is 1.

### Notes on Unauthorized Discs

You may not be able to play back some DVD video discs on this player if they were purchased from outside your geographic area or made for business purposes.
When you try to play back an unauthorized disc, “**Check Regional Code**” appears on the TV screen.

### Notes on Copyright

It is forbidden by law to copy, broadcast, show, broadcast on cable, play in public, and rent copyrighted material without permission.
DVD video discs are copy protected, and any recordings made from these discs will be distorted.
This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only, unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

## Before Calling Service Personnel

### Symptoms and Correction

**Check the following guide for the possible cause of a problem before contacting service.**

| Symptom | Cause | Correction |
|---|---|---|
| No power. | • The power cord is disconnected. | • Plug the power cord into the wall outlet securely. |
| The power is on, but the DVD player does not work. | • No disc is inserted. | • Insert a disc. (Check that the DVD or, audio CD indicator in the DVD display is lit.) |
| No picture. | • The TV is not set to receive DVD signal output. | • Select the appropriate video input mode on the TV so the picture from the DVD player appears on the TV screen. |
| | • The video cable is not connected securely. | • Connect the video cable into the jacks securely. |
| | • The connected TV power is turned off. | • Turn on the TV. |
| No sound. | • The equipment connected with the audio cable is not set to receive DVD signal output. | • Select the correct input mode of the audio receiver so you can listen to the sound from the DVD player. |
| | • The audio cables are not connected securely. | • Connect the audio cable into the jacks securely. |
| | • The power of the equipment connected with the audio cable is turned off. | • Turn on the equipment connected with the audio cable. |
| | • The Digital Audio Output is set to the wrong position. | • Set the Digital Audio Output to the correct position, then turn on the DVD player again by pressing the POWER button. |
| The playback picture is poor. | • The disc is dirty. | • Clean the disc. |
| The DVD player does not start playback. | • No disc is inserted. | • Insert a disc. (Check that the DVD, or audio CD indicator in the DVD display is lit.) |
| | • An unplayable disc is inserted. | • Insert a playable disc. (Check the disc type, color system and Regional code.) |
| | • The disc is placed upside down. | • Place the disc with the playback side down. |
| | • The disc is not placed within the guide. | • Place the disc on the disc tray correctly inside the guide. |
| | • The disc is dirty. | • Clean the disc. |
| | • A menu is on the TV screen. | • Press the SETUP button to turn off the menu screen. |
| | • The Rating level is set. | • Cancel the Rating function or change the rating level. |
| The remote control does not work properly. | • The remote control is not pointed at the remote sensor of the DVD player. | • Point the remote control at the remote sensor of the DVD player. |
| | • The remote control is too far from the DVD player. | • Operate the remote control within about 23 ft (7 m). |
| | • There is an obstacle in the path of the remote control and the DVD player. | • Remove the obstacle. |
| | • The batteries in the remote control are exhausted. | • Replace the batteries with new ones. |





## Specifications

### DVD player/Outputs/Supplied Accessories

| | | |
|---|---|---|
| [DVD player] | Power supply | AC 120V, 60 Hz |
| | Power consumption | 16 W |
| | Weight | 12.6 lbs (5.7 kg) |
| | External dimensions (W X H X D) | 17" X 4.7" X 15.1" (430 x 118 x 381 mm) |
| | Signal system | NTSC |
| | Laser | Semiconductor laser, wavelength 650 nm (DVD), 780 nm (CD) |
| | Frequency range (audio) | 4 Hz to 20 kHz |
| | Signal-to-noise ratio (audio) | More than 100 dB (EIAJ) |
| | Dynamic range (audio) | More than 90 dB (EIAJ) |
| | Harmonic distortion (audio) | 0.008 % |
| | Wow and flutter | Below measurable level (less than + 0.001 % (W.PEAK)) (EIAJ) |
| | Operating conditions | Temperature: 41°F to 95°F, Operation status: Horizontal |
| [Outputs] | Video output | 1.0 V (p-p), 75 Ω, negative sync., RCA jack x 1 |
| | S-video output | (Y) 1.0 V (p-p), 75 Ω, negative sync., Mini DIN 4-pin x 1<br>(C) 0.286 V (p-p), 75 Ω |
| | Component video output | (Y) 1.0 V (p-p), 75 Ω, negative sync., RCA jack x 1<br>(Pb)/(Pr) 0.7 V (p-p), 75 Ω |
| | Audio output (digital audio) | 0.5 V (p-p), 75 Ω, RCA jack x 1 |
| | Audio output (analog audio) | 2.0 Vrms(1 KHz, 0 dB), 330 Ω, RCA jack (L, R) x 2 |
| [Supplied Accessories] | ● Video cable .....1<br>● Audio cable .....1<br>● Remote control.....1<br>● Batteries .....2 | |

**※ Designs and specifications are subject to change without notice.**

## LIMITED WARRANTY DVD VIDEO PLAYER

Toshiba America Consumer Products, Inc. ("TACP"), Toshiba Hawaii ("THI") and Toshiba Canada Limited ("TCL") make the following limited warranties. These limited warranties extend to original purchaser or any person receiving this set as a gift from the original purchaser and to no other purchaser or transferee.

**Limited Ninety (90) Day Warranty**
TACP/THI warrant this product against defects in materials or workmanship for a period of ninety (90) days after the date of original retail purchase. During this period, TACP/ THI will repair or replace a defective product or part, at their option, with a new or refurbished product or part without charge to you. You must deliver the entire product to a TACP/THI Authorized Service Station. You are responsible for all transportation and insurance charges for the unit to and from the Authorized Service Station. If you live in the U.S.A. you may, at your option, return your DVD Unit to:

Toshiba America Consumer Products Inc.
Returns Center
1420C Toshiba Dr.
Lebanon, TN 37087

Upon receipt we will, at our option, exchange the DVD Unit with a new or refurbished unit. **Canadian consumers are requested to contact TCL. In Hawaii consumers are requested to contact THI.**

**Limited One (1) Year Warranty**
TACP/THI further warrant the parts in this product against defects in materials or workmanship for a period of one (1) year after the date of original retail purchase. During this period, TACP/THI will repair or replace a defective product or part, at their option, with a new or refurbished product or part without charge to you, except that if a defective part is replaced after ninety (90) days from the date of the original retail purchase you pay labor charges involved in the replacement. You must also deliver the entire product to a TACP/THI Authorized Service Station. You are responsible for all transportation and insurance charges for the unit to and from the Authorized Service Station. If you live in the U.S.A. you may, at your option, return your DVD Unit to:

Toshiba America Consumer Products Inc.
Returns Center
1420C Toshiba Dr.
Lebanon, TN 37087

Upon receipt we will, at our option, exchange the DVD Unit with a new or refurbished unit. **Canadian Consumers are requested to contact TCL. In Hawaii consumers are requested to contact THI.**

**Rental Units**
The warranty for rental units begin with the first rental or thirty (30) days from the date of shipment to the rental firm, whichever comes first.

**Commercial Units**
Products sold and used for commercial use have a limited ninety (90) day warranty for all parts and labor.

**Owner's Manual**
You should read the owner's manual thoroughly before operating this product. You should complete and mail the enclosed Demographic card within ten (10) days after you, or the person who has given you this product as a gift, purchased this product. This is one way to enable TACP to provide you with better customer service and improved products. Failure to return the card will not affect your rights under this warranty.

**Your Responsibility**
The above warranties are subject to the following conditions:
(1) You must retain your bill of sale or provide other proof of purchase.
(2) You must notify a TACP/THI/TCL /Authorized Service Station within thirty (30) days after you discover a defective product or part.
(3) All warranty servicing of this product must be made by a TACP/THI/TCL Authorized Service Station.
(4) U.S.A. warranties are effective only if the product is purchased and operated in the Continental U.S.A. or Puerto Rico.
(5) Labor service charges for set installation. Set up, adjustment of customer controls and installation or repair of antenna systems are not covered by this warranty. Reception problems caused by inadequate antenna systems are your responsibility.
(6) Warranties extend only to defects in materials or workmanship as limited above and do not extend to any product or parts which have been lost or discarded by you or to damage to products or parts caused by misuse, accident, damage caused by Acts of God, such as lighting or fluctuations in electric power, improper installation, improper maintenance or use in violation of instructions furnished by us; or to units which have been altered or modified without authorization of TACP/THI/TCL or to damage to products or part thereof which have had the serial number removed, altered, defaced or rendered illegible.
(7) Should you elect to return your DVD Unit to TACP after the ninety (90) days and within one (1) year, or after the warranty period has expired: Call (800)-631-3811 to receive information concerning an exchange price. Payment must be enclosed with product in the form of a certified check or money order including reason for return.
(8) Physically damaged DVD Units are not acceptable for repair or exchange whether in or out of warranty and will be returned as received.

(Continued)







## LIMITED WARRANTY DVD VIDEO PLAYER (Cont'd)

**How to Obtain Warranty Service**

(1) Refer to the troubleshooting guide in your owner's manual. This check list may solve your problem.
(2) In the U.S.A., only call the TACP toll free number 800-631-3811, or if in Hawaii or Canada see listing below within (30) days after you find a defective product or part.
(3) Arrange for the delivery of the product to the TACP/THI/TCL Authorized Service Station or TACP Return Center. Products shipped to the Service Station must be insured and safely and securely packed, preferably in the original shipping carton, and a letter explaining the defect and also a copy of the bill of sale or other proof of purchase must be enclosed.

**In the Continental United States contact:**

**In Hawaii contact:**
Toshiba Hawaii Inc.
327 Kamakee Street
Honolulu, HA 96814
(808)-521-5377

**In Canada contact:**
Consumer Electronics Group
191 McNabb Street
Markham, Ontario L3R 8H2
(905)-470-5400

Consumer Electronics Group
22171 Fraserwood Way
Richmond, B.C. V6W 1J5
(604)-303-2500

Consumer Electronics Group
1643 North Service Road
Droval, QC H9P 1J1
(514)-856-4100

All warranties implied by state law, including the implied warranties of merchantability and fitness for a particular purpose, are expressly limited to the duration of the limited warranties set forth above. With the exception of any warranties implied by state law as hereby limited, the foregoing warranty is exclusive and in lieu of all other warranties, guarantees, agreements and similar obligations of manufacturer or seller with respect to the repair or replacement of any parts. In no event shall TACP/THI be liable for consequential or incidental damages.
No person, agent, distributor, dealer or company is authorized to change, modify or extend the terms of these warranties in any manner whatsoever. The time within which an action must be commenced to enforce any obligation of TACP/THI arising under the warranty or under any statute, or law of the United States or any state thereof, is hereby limited to ninety (90) days from the date you discover or should have discovered, the defect. This limitation does not apply to implied warranties arising under state law. This warranty gives you specific legal rights and you may also have other rights which may vary from state to state. Some states do not allow limitation on how long an implied warranty lasts, when an action may be brought, or the exclusion or limitation of incidental or consequential damages, so the above provisions may not apply to you.

**ATTENTION CANADIAN CONSUMERS:**
Canadian consumers are requested to complete the special Canadian "Warranty Registration Form" enclosed, and forward this completed form with a copy of bill of sale to TOSHIBA OF CANADA to "Register and Validate" their warranty. Product must be purchased from an Authorized Canadian Dealer. Products purchased in the U.S.A. and used in Canada are not covered by these warranties.

**IMPORTANT: PACKING AND SHIPPING INSTRUCTION**
When you send the product to a Service Station, you must use the original carton box and packing material, then insert the original carton box containing the unit into another carton using more packing material.

# PRODUCT SAFETY SERVICING GUIDELINES FOR VIDEO PRODUCTS

CAUTION : DO NOT ATTEMPT TO MODIFY THIS PRODUCT IN ANY WAY, NEVER PERFORM CUSTOMIZED INSTALLATIONS WITHOUT MANUFACTURER'S APPROVAL. UNAUTHORIZED MODIFICATIONS WILL NOT ONLY VOID THE WARRANTY, BUT MAY LEAD TO YOUR BEING LIABLE FOR ANY RESULTING PROPERTY DAMAGE OR USER INJURY.

SERVICE WORK SHOULD BE PERFORMED ONLY AFTER YOU ARE THOROUGHLY FAMILIAR WITH ALL OF THE FOLLOWING SAFETY CHECKS AND SERVICING GUIDELINES. TO DO OTHERWISE, INCREASES THE RISK OF POTENTIAL HAZARDS AND INJURY TO THE USER.

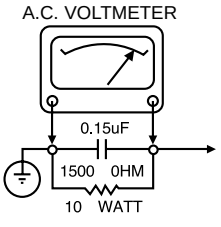
WHILE SERVICING, USE AN ISOLATION TRANSFORMER FOR PROTECTION FROM A.C. LINE SHOCK.

**SAFETY CHECKS**

AFTER THE ORIGINAL SERVICE PROBLEM HAS BEEN CORRECTED. A CHECK SHOULD BE MADE OF THE FOLLOWING.

**SUBJECT : FIRE & SHOCK HAZARD**

1. BE SURE THAT ALL COMPONENTS ARE POSITIONED IN SUCH A WAY AS TO AVOID POSSIBILITY OF ADJACENT COMPONENT SHORTS. THIS IS ESPECIALLY IMPORTANT ON THOSE MODULES WHICH ARE TRANSPORTED TO AND FROM THE REPAIR SHOP.
2. NEVER RELEASE A REPAIR UNLESS ALL PROTECTIVE DEVICES SUCH AS INSULATORS, BARRIERS, COVERS, SHIELDS, STRAIN RELIEFS, POWER SUPPLY CORDS, AND OTHER HARDWARE HAVE BEEN REINSTALLED PER ORIGINAL DESIGN. BE SURE THAT THE SAFETY PURPOSE OF THE POLARIZED LINE PLUG HAS NOT BEEN DEFEATED.
3. SOLDERING MUST BE INSPECTED TO DISCOVER POSSIBLE COLD SOLDER JOINTS, SOLDER SPLASHES OR SHARP SOLDER POINTS. BE CERTAIN TO REMOVE ALL LOOSE FOREIGN PARTICLES.
4. CHECK FOR PHYSICAL EVIDENCE OF DAMAGE OR DETERIORATION TO PARTS AND COMPONENTS, FOR FRAYED LEADS, DAMAGED INSULATION (INCLUDING A.C. CORD), AND REPLACE IF NECESSARY. FOLLOW ORIGINAL LAYOUT, LEAD LENGTH AND DRESS.
5. NO LEAD OR COMPONENT SHOULD TOUCH A RECIVING TUBE OR A RESISTOR RATED AT 1 WATT OR MORE. LEAD TENSION AROUND PROTRUDING METAL SURFACES MUST BE AVOIDED.
6. ALL CRITICAL COMPONENTS SUCH AS FUSES, FLAMEPROOF RESISTORS, CAPACITORS, ETC. MUST BE REPLACED WITH EXACT FACTORY TYPES, DO NOT USE REPLACEMENT COMPONENTS OTHER THAN THOSE SPECIFIED OR MAKE UNRECOMMENDED CIRCUIT MODIFICATIONS.
7. AFTER RE-ASSEMBLY OF THE SET ALWAYS PERFORM AN A.C. LEAKAGE TEST ON ALL EXPOSED METALLIC PARTS OF THE CABINET, (THE CHANNEL SELECTOR KNOB, ANTENNA TERMINALS. HANDLE AND SCREWS) TO BE SURE THE SET IS SAFE TO OPERATE WITHOUT DANGER OF ELECTRICAL SHOCK. DO NOT USE A LINE ISOLATION TRANSFORMER DURING THIS TEST USE AN A.C. VOLTMETER, HAVING 5000 OHMS PER VOLT OR MORE SENSITIVITY, IN THE FOLLOWING MANNER; CONNECT A 1500 OHM 10 WATT RESISTOR, PARALLELED BY A .15 MFD. 150.V A.C TYPE CAPACITOR BETWEEN A KNOWN GOOD EARTH GROUND (WATER PIPE, CONDUIT, ETC.) AND THE EXPOSED METALLIC PARTS, ONE AT A TIME. MEASURE THE A.C. VOLTAGE ACROSS THE COMBINATION OF 1500 OHM RESISTOR AND .15 MFD CAPACITOR. REVERSE THE A.C. PLUG AND REPEAT A.C. VOLTAGE MEASUREMENTS FOR EACH EXPOSED METALLIC PART. VOLTAGE MEASURED MUST NOT EXCEED 75 VOLTS R.M.S. THIS CORRESPONDS TO 0.5 MILLIAMP A.C ANY VALUE EXCEEDING THIS LIMIT CONSTITUTES A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED IMMEDIATELY.




GOOD EARTH GROUND SUCH AS THE WATER PIPE. CONDUIT. ETC

PLACE THIS PROBE ON EACH EXPOSED METAL PART

**SUBJECT: GRAPHIC SYMBOLS**

THE LIGHTNING FLASH WITH APROWHEAD SYMBOL. WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE SERVICE PERSONNEL TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK.

THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE SERVICE PERSONNEL TO THE PRESENCE OF IMPORTANT SAFETY INFORMATION IN SERVICE LITERATURE.

SUBJECT : X-RADIATION

1. BE SURE PROCEDURES AND INSTRUCTIONS TO ALL SERVICE PERSONNEL COVER THE SUBJECT OF X-RADIATION. THE ONLY POTENTIAL SOURCE OF X-RAYS IN CURRENT T.V. RECEIVERS IS THE PICTURE TUBE. HOWEVER, THIS TUBE DOES NOT EMIT X-RAYS WHEN THE HIGH VOLTAGE IS AT THE FACTORY SPECIFIED LEVEL. THE PROPER VALUE IS GIVEN IN THE APPLICABLE SCHEMATIC. OPERATION AT HIGHER VOLTAGES MAY CAUSE A FAILURE OF THE PICTURE TUBE OR HIGH VOLTAGE SUPPLY AND, UNDER CERTAIN CIRCUMSTANCES, MAY PRODUCE RADIATION IN EXCESS OF DESIRABLE LEVELS.
2. ONLY FACTORY SPECIFIED C.R.T. ANODE CONNECTORS MUST BE USED. DEGAUSSING SHIELDS ALSO SERVE AS AN X-RAY SHIELD IN COLOR SETS, ALWAYS RE-INSTALL THEM.
3. IT IS ESSNTIAL THAT SERVICE PERSONNEL HAVE AVAILABLE AN ACCURATE AND RELIABLE HIGH VOLTAGE METER. THE CALIBRATION OF THE METER SHOULD BE CHECKED PERIODICALLY AGAINST A REFERENCE STANDARD, SUCH AS THE ONE AVAILABLE AT YOUR DISTRIBUTOR.
4. WHEN THE HIGH VOLTAGE CIRCUITRY IS OPERATING PROPERLY THERE IS NO POSSIBILITY OF AN X-RADIATION PROBLEM. EVERY TIME A COLOR CHASSIS IS SERVICED. THE BRIGHTNESS SHOULD BE RUN UP AND DOWN WHILE MONITORING THE HIGH VOLTAGE WITH A METER TO BE CERTAIN THAT THE HIGH VOLTAGE DOES NOT EXCEED THE SPECIFIED VALUE AND THAT IT IS REGULATING CORRECTLY. WE SUGGEST THAT YOU AND YOUR SERVICE ORGANIZATION REVIEW TEST PROCEDURES SO THAT VOLTAGE REGULATION IS ALWAYS CHECKED AS A STANDARD SERVICING PROCEDURE AND THAT THE HIGH VOLTAGE READING BE RECORDED ON EACH CUSTOMER'S INVOICE.
5. WHEN TROUBLESHOOTING AND MAKING TEST MEASUREMENTS IN A PRODUCT WITH A PROBLEM OF EXCESSIVE HIGH VOLTAGE, AVOID BEING UNNECESSARILY CLOSE TO THE PICTURE TUBE AND THE HIGH VOLTAGE SUPPLY. DO NOT OPERATE THE PRODUCT LONGER THAN IT IS NECESSARY TO LOCATE THE CAUSE OF EXCESSIVE VOLTAGE.
6. REFER TO HV. B+ AND SHUTDOWN ADJUSTMENT PROCEDURES DESCRIBED IN THE APPROPRIATE SCHEMATIC AND DIAGRAMS (WHERE USED).

**SUBJECT: IMPLOSION**

1. ALL DIRECT VIEWED PICTURE TUBES ARE EQUIPPED WITH AN INTEGRAL IMPLOSION PROTECTION SYSTEM, BUT CARE SHOULD BE TAKEN TO AVOID DAMAGE DURING INSTALLATION, AVOID SCRATCHING THE TUBE. IF SCRATCHED REPLACE IT.
2. USE ONLY RECOMMENDED FACTORY REPLACEMENT TUBES.

**SUBJECT : TIPS ON PROPER INSTALLATION**

1. NEVER INSTALL ANY PRODUCT IN A CLOSED-IN RECESS, CUBBYHOLE OR CLOSELY FITTING SHELF SPACE, OVER OR CLOSE TO HEAT DUCT, OR IN THE PATH OF HEATED AIR FLOW.
2. AVOID CONDITIONS OF HIGH HUMIDITY SUCH AS: OUTDOOR PATIO INSTALLATIONS WHERE DEW IS A FACTOR, NEAR STEAM RADIATORS WHERE STEAM LEAKAGE IS A FACTOR, ETC.
3. AVOID PLACEMENT WHERE DRAPERIES MAY OBSTRUCT REAR VENTING. THE CUSTOMER SHOULD ALSO AVOID THE USE OF DECORATIVE SCARVES OR OTHER COVERINGS WHICH MIGHT OBSTRUCT VENTILATION.
4. WALL AND SHELF MOUNTED INSTALLATIONS USING A COMMERCIAL MOUNTING KIT, MUST FOLLOW THE FACTORY APPROVED MOUNTING INSTRUCTIONS. A PRODUCT MOUNTED TO A SHELF OR PLATFORM MUST RETAIN ITS ORIGINAL FEET (OR THE EQUIVALENT THICKNESS IN SPACERS) TO PROVIDE ADEQUATE AIR FLOW ACROSS THE BOTTOM. BOLTS OR SCREWS USED FOR FASTENERS MUST NOT TOUCH ANY PARTS OR WIRING. PERFORM LEAKAGE TEST ON CUSTOMIZED INSTALLATIONS.
5. CAUTION CUSTOMERS AGAINST THE MOUNTING OF A PRODUCT ON SLOPING SHELF OR A TILTED POSITION, UNLESS THE PRODUCT IS PROPERLY SECURED.
6. A PRODUCT ON A ROLL-ABOUT CART SHOULD BE STABLE ON ITS MOUNTING TO THE CART. CAUTION THE CUSTOMER ON THE HAZARDS OF TRYING TO ROLL A CART WITH SMALL CASTERS ACROSS THRESHOLDS OR DEEP PILE CARPETS.
7. CAUTION CUSTOMERS AGAINST THE USE OF A CART OR STAND WHICH HAS NOT BEEN LISTED BY UNDERWRITERS LABORATORIES, INC. FOR USE WITH THEIR SPECIFIC MODEL OF TELEVISION RECEIVER OR GENERICALLY APPROVED FOR USE WITH T.V.'S OF THE SAME OR LARGER SCREEN SIZE.
8. CAUTION CUSTOMERS AGAINST THE USE OF EXTENSION CORDS. EXPLAIN THAT A FOREST OF EXTENSIONS SPROUTING FROM A SINGLE OUTLET CAN LEAD TO DISASTROUS CONSEQUENCES TO HOME AND FAMILY.

# SERVICING PRECAUTIONS

CAUTION : Before servicing the DVD covered by this service data and its supplements and ADDENDUMS, read and follow the *SAFETY PRECAUTIONS. NOTE* : if unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions in this publications, always follow the safety precautions.
*Remember Safety First:*

**General Servicing Precautions**

1. Always unplug the DVD AC power cord from the AC power source before:
   (1) Removing or reinstalling any component, circuit board, module, or any other assembly.
   (2) Disconnection or reconnecting any internal electrical plug or other electrical connection.
   (3) Connecting a test substitute in parallel with an electrolytic capacitor.
   **Caution** : A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.

2. Do not spray chemicals on or near this DVD or any of its assemblies.

3. Unless specified otherwise in this service data, clean electrical contacts by applying an appropriate contact cleaning solution to the contacts with a pipe cleaner, cotton-tipped swab, or comparable soft applicator.
   Unless specified otherwise in this service data, lubrication of contacts is not required.

4. Do not defeat any plug/socket B+ voltage interlocks with whitch instruments covered by this service manual might be equipped.

5. Do not apply AC power to this DVD and/or any of its electrical assemblies unless all solid-state device heat sinks are cerrectly installed.

6. Always connect test instrument ground lead to the appropriate ground before connection the test instrument positive lead. Always remove the test instrument ground lead last.

**Insulation Checking Procedure**

Disconnect the attachment plug from the AC outlet and turn the power on. Connect an insulation resistance meter(500V) to the blades of the attachment plug. The insulation resistance between each blade of the attachment plug and accessible conductive parts (Note 1) should be more than 1M-ohm.
**Note 1 :** Accessible Conductive Parts including Metal panels, Input terminals, Earphone jacks, etc.

**Electrostatically Sensitive (ES) Devices**

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field effect transistors and semiconductor chip components.
The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.

2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.

3. Use only a GROUNDED-tip soldering iron to solder or unsolder ES devices.

4. Use only an anti-static solder removal device. Some solder removal devices not classified a “anti-static” can generate electrical charges sufficient to damage ES devices.

5. Do not use freon-propelled chemicals. These can generate electrical charge sufficient to damage ES devices.

6. Do not remove a replacement ES device from its protec tive package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil, or comparable conductive material).

7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

   Caution : Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Normally harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

# SECTION 2

# CABINET & MAIN CHASSIS

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# DISASSEMBLY

**CAUTION BEFORE STARTING SERVICING**

Electronic parts are susceptible to static electricity and may easily damaged, so do not forget to take a proper grounding treatment as required.

Many screws are used inside the unit. To prevent missing, dropping, etc. of the screws, always use a magnetized screw driver in servicing. Several kinds of screws are used and some of them need special cautions. That is, take care of the tapping screws securing molded patrs and fine pitch screws used to secure metal parts. If they are used improperly, the screw holes will be easily damaged and the parts can not be fixed.

## CABINET DISASSEMBLY

### 1. Top Case

1. Release 7 screws (A). (See Fig. 2-1)
2. Lift the top case with holding the back of it, and remove it in the direction of the arrow.

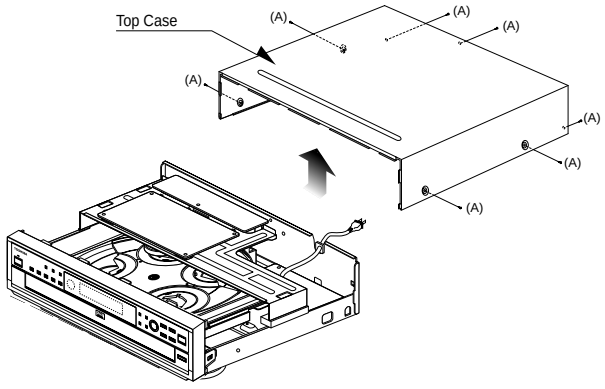



**Fig. 2-1**

### 2. Tray Door

1. Eject the disc tray.
2. Lift up the tray door in the direction of the arrow.

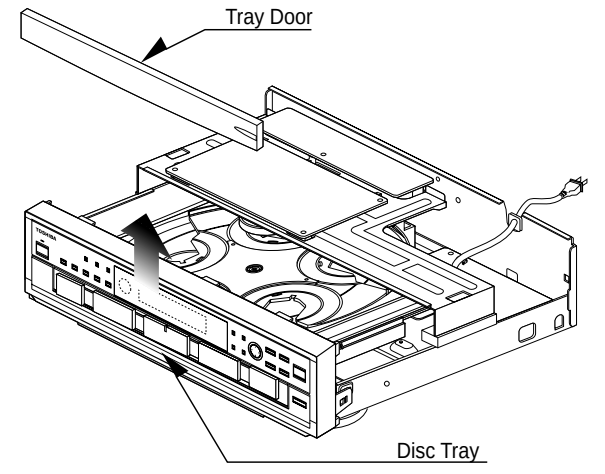



**Fig. 2-2**

### 3. Front Panel

1. Eject the disc tray. (See Fig. 2-2)
2. Remove the tray door. (See Fig. 2-2)
3. Pull the front panel toward you while pressing 5 stoppers to disengage, and remove the front panel. (See Fig. 2-3)

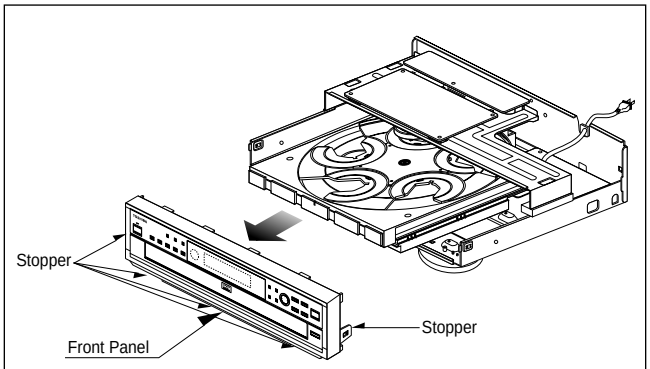



**Fig. 2-3**

# CIRCUIT BOARD DISASSEMBLY

**Note:** Before removing the main circuit board, be sure to shortcircuit the laserdiode output land. After replacing the main circuit board, open the land after inserting the flexible connector. (Refer to Mechanism Disassembly)

## 1. Disassemble Main circuit board, Jack circuit board, Power circuit board and MD Ass'y DPM1.

1. Remove the top case.(See Fig. 2-1)
2. Remove 10 screws (B).
3. Disassemble Main circuit board and Jack circuit board from Bracket Main.
4. Unscrew 3 screws(C) at Bracket Main.
5. Disassemble Bracket Main from Main chassis.
6. Unscrew 4 screws(D) at MD Ass'y DPM1.
7. Turn the portion the direction of arrow to move the Base Assembly Tray in front of you.
8. Release the other 3 screws(E).
9. Disassemble MD Ass'y DPM1 from Main chassis.
10. Unscrew 4 screws(F) at Power circuit.
11. Disassemble power circuit board from Main chassis.

## 2. Digitron and Key Circuit Board

1. Remove the front panel.(See Fig. 2-3)
2. Release 6 screws (G), and remove the digitron circuit board.

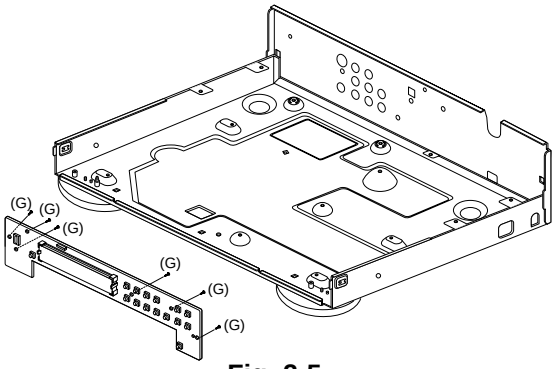



**Fig. 2-5**

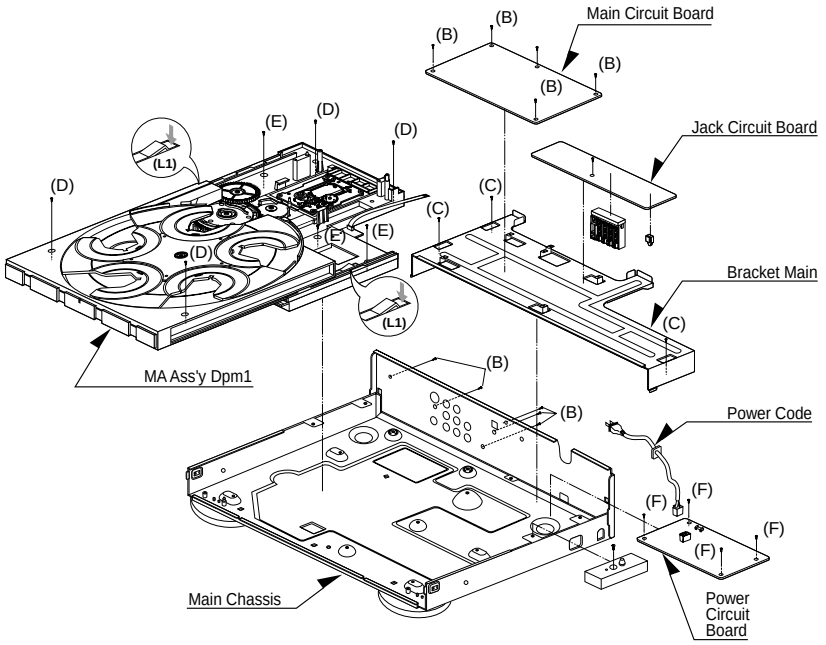
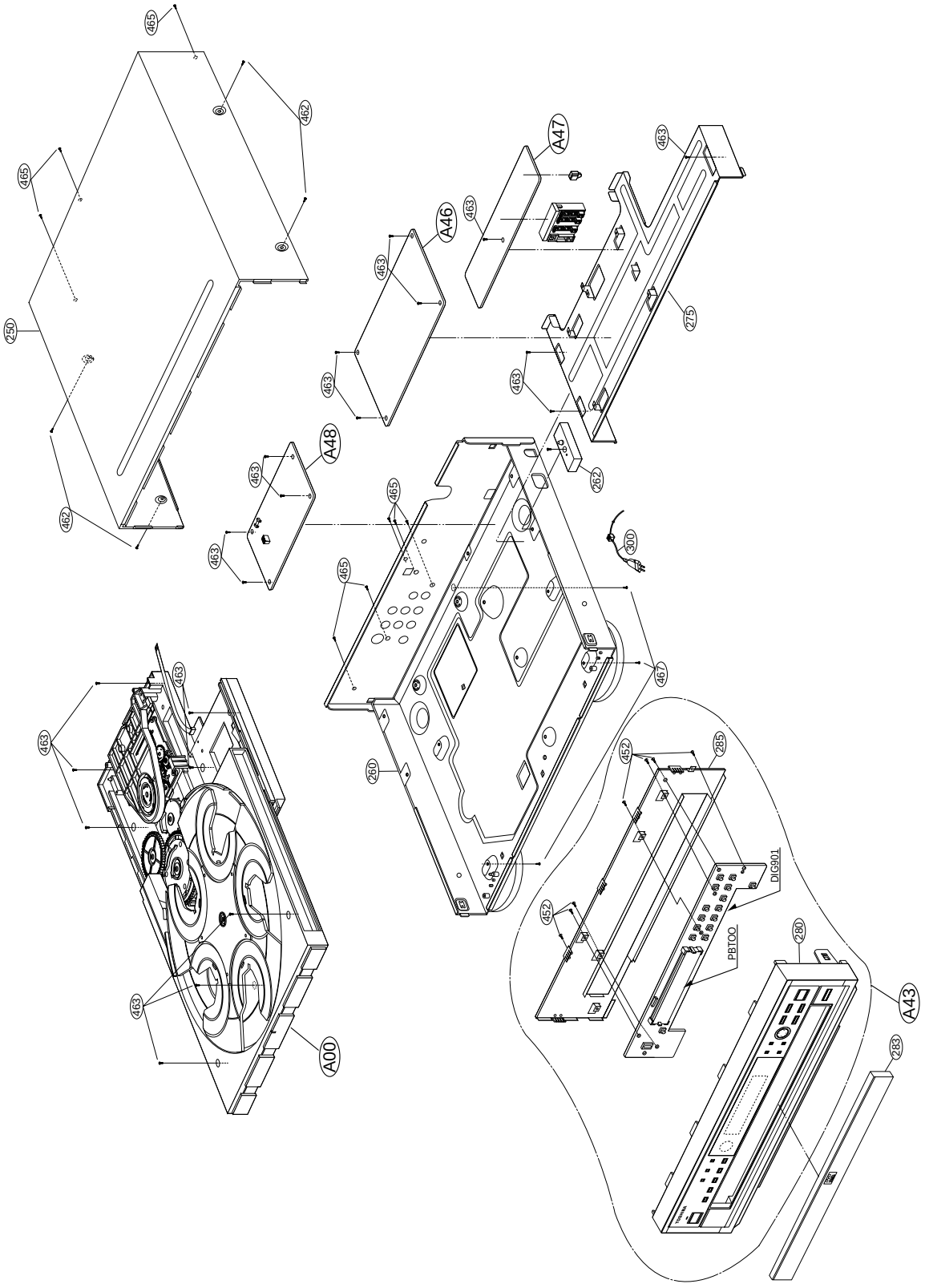


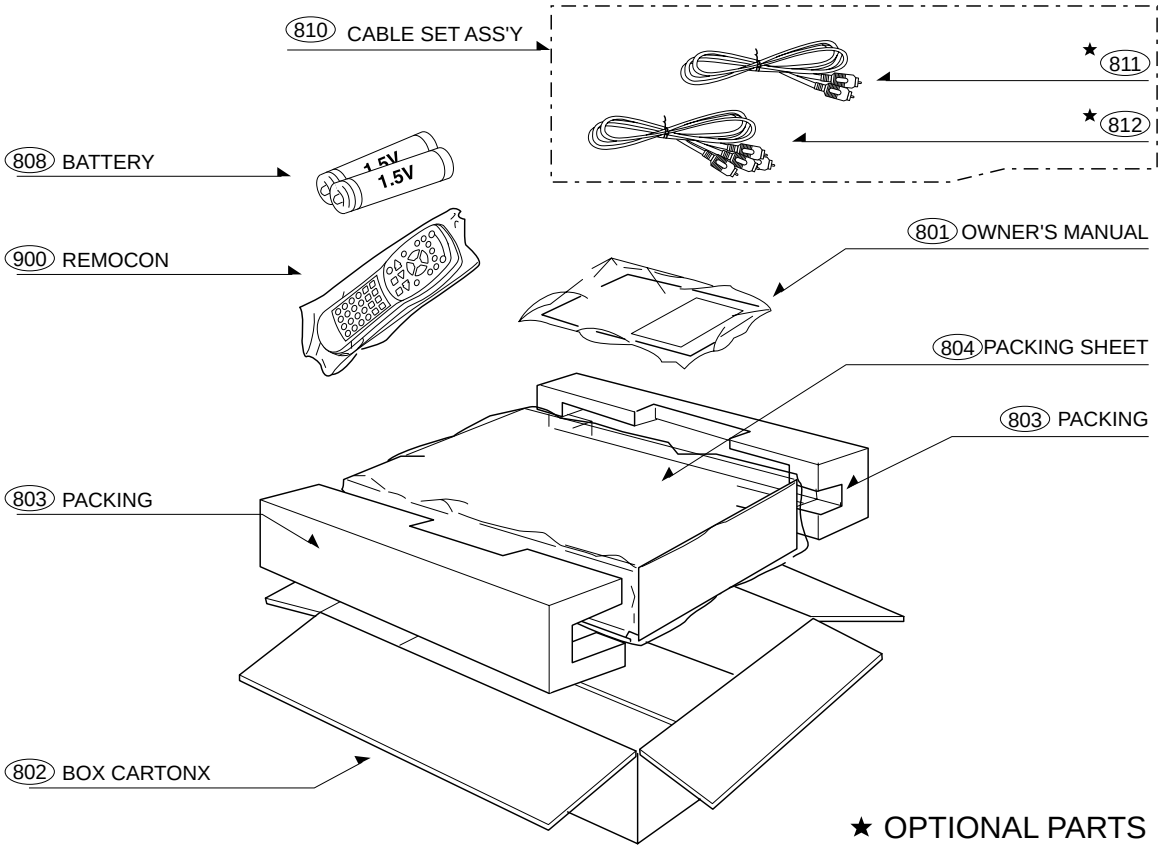

**Fig. 2-4**

# EXPLODED VIEWS

## 1. Cabinet and Main Frame Section



## 2.Packing Accessory Section



# SECTION 3
# ELECTRICAL

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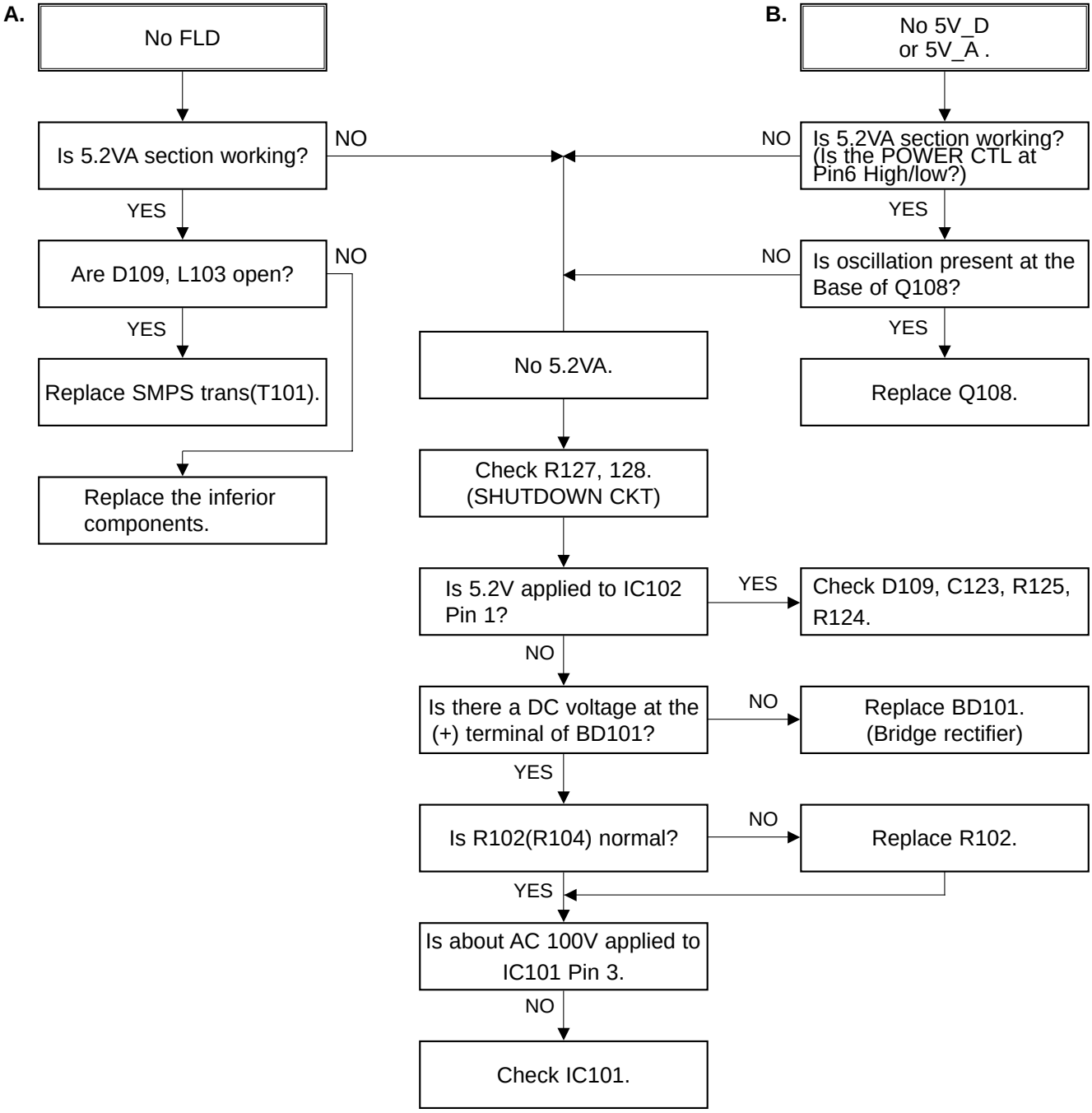
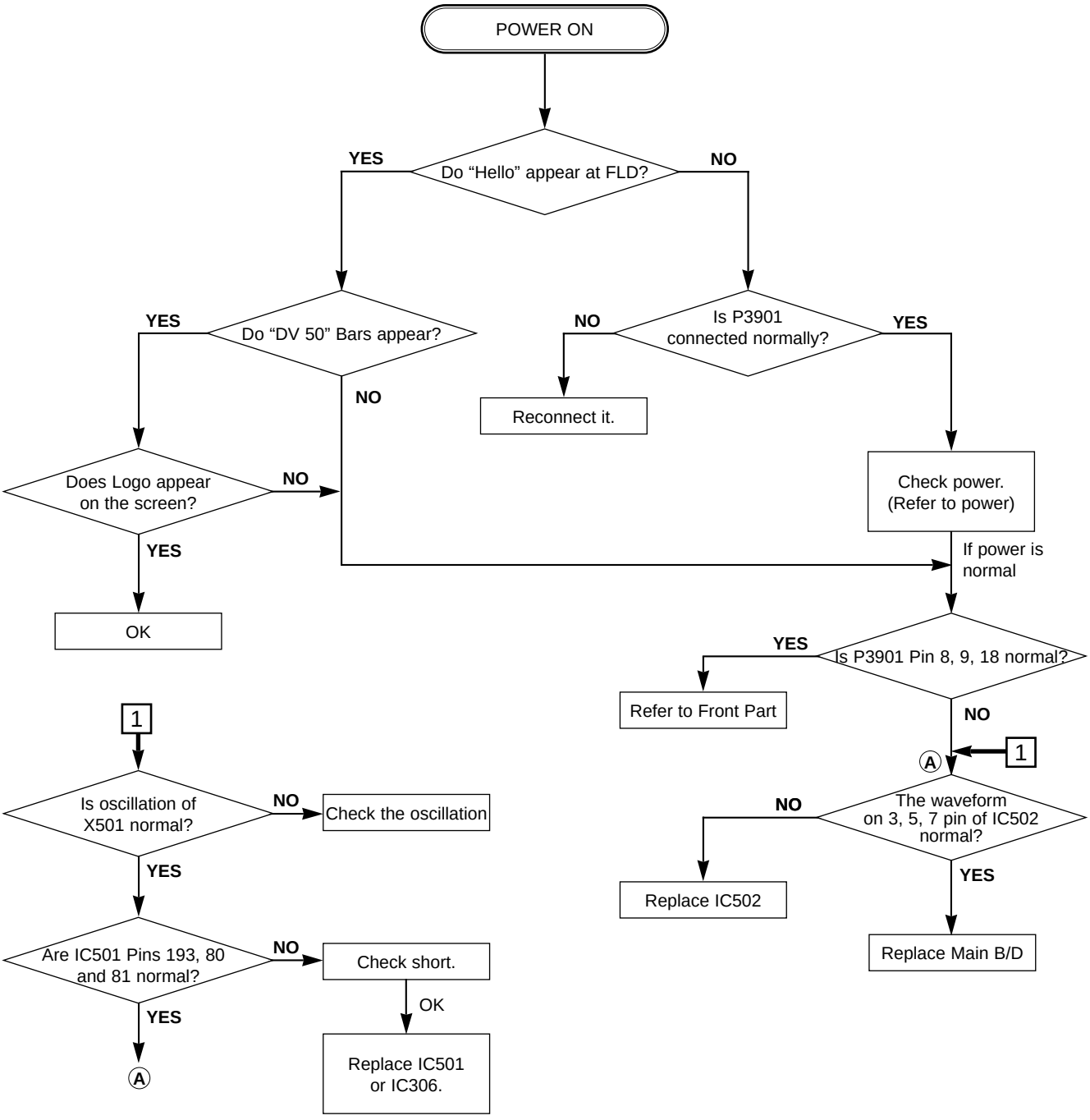
# ELECTRICAL TROUBLESHOOTING GUIDE

## 1. Power(SMPS) Circuit

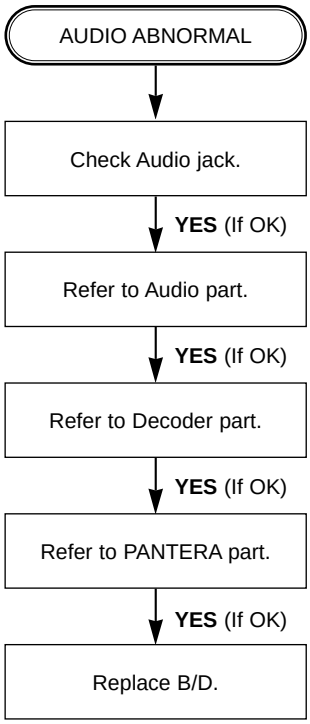


## 2. µ-COM Circuit

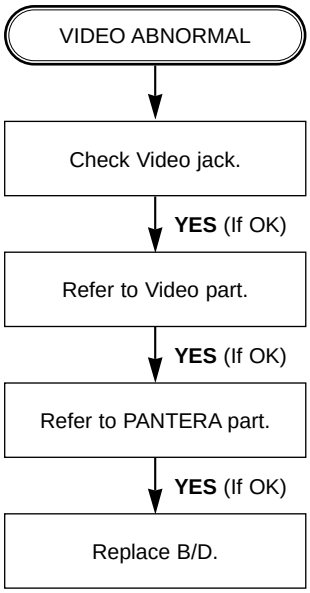
### A. No Power



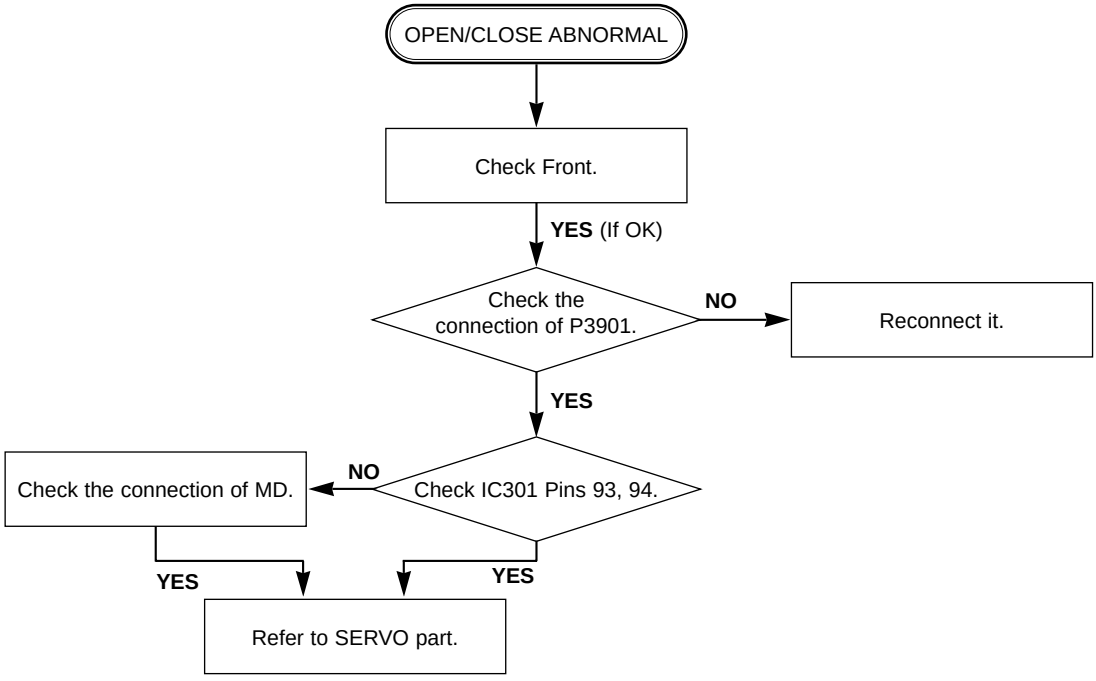
**B. Audio abnormal**



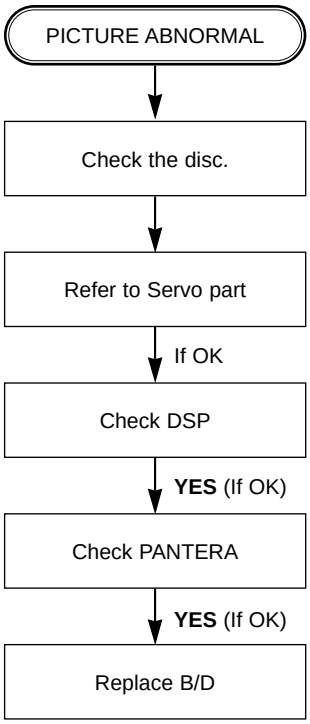

**C. Video abnormal**



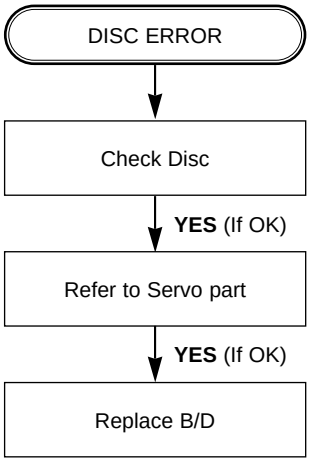

**D. Open/Close abnormal**



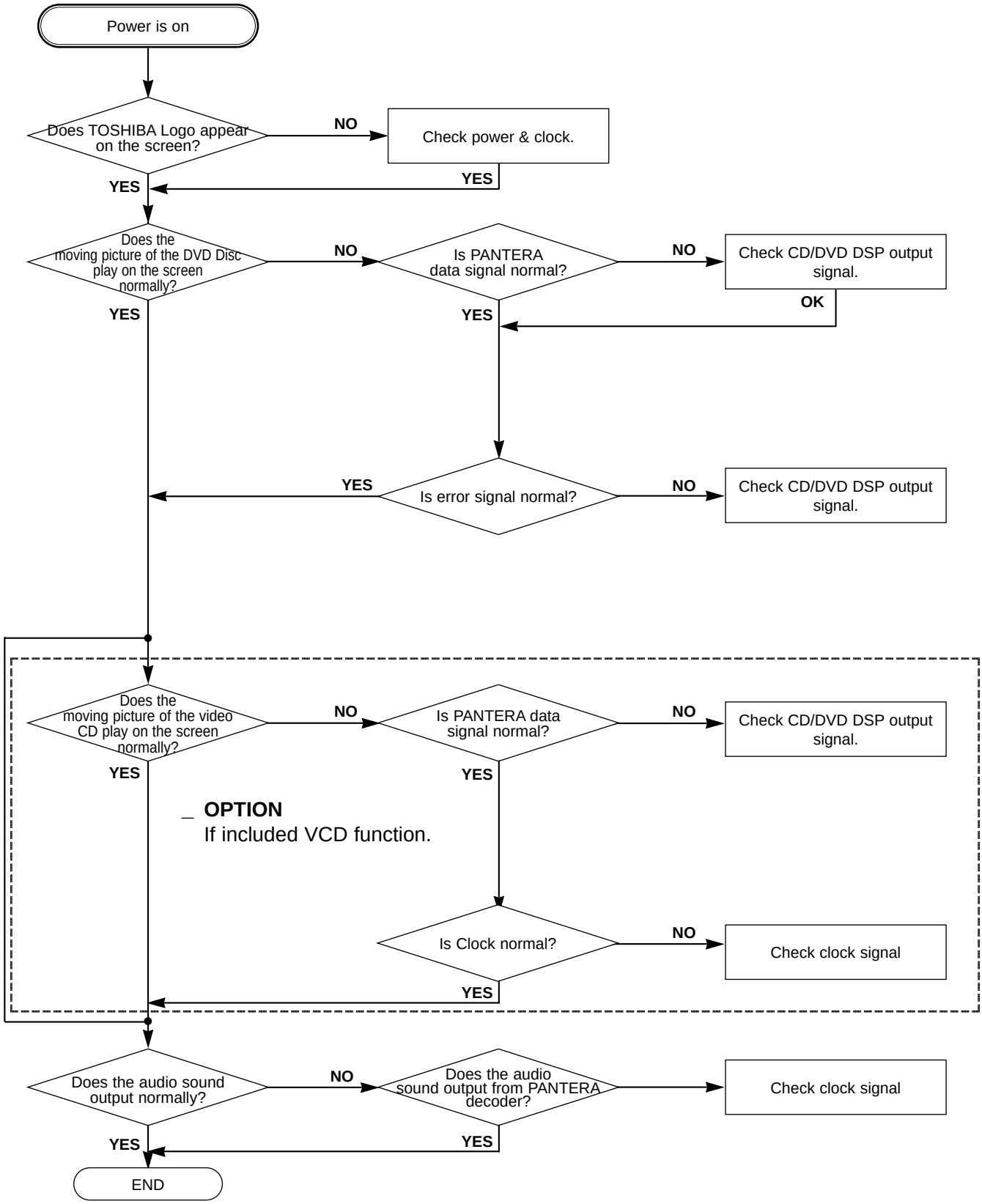
### E. Picture abnormal



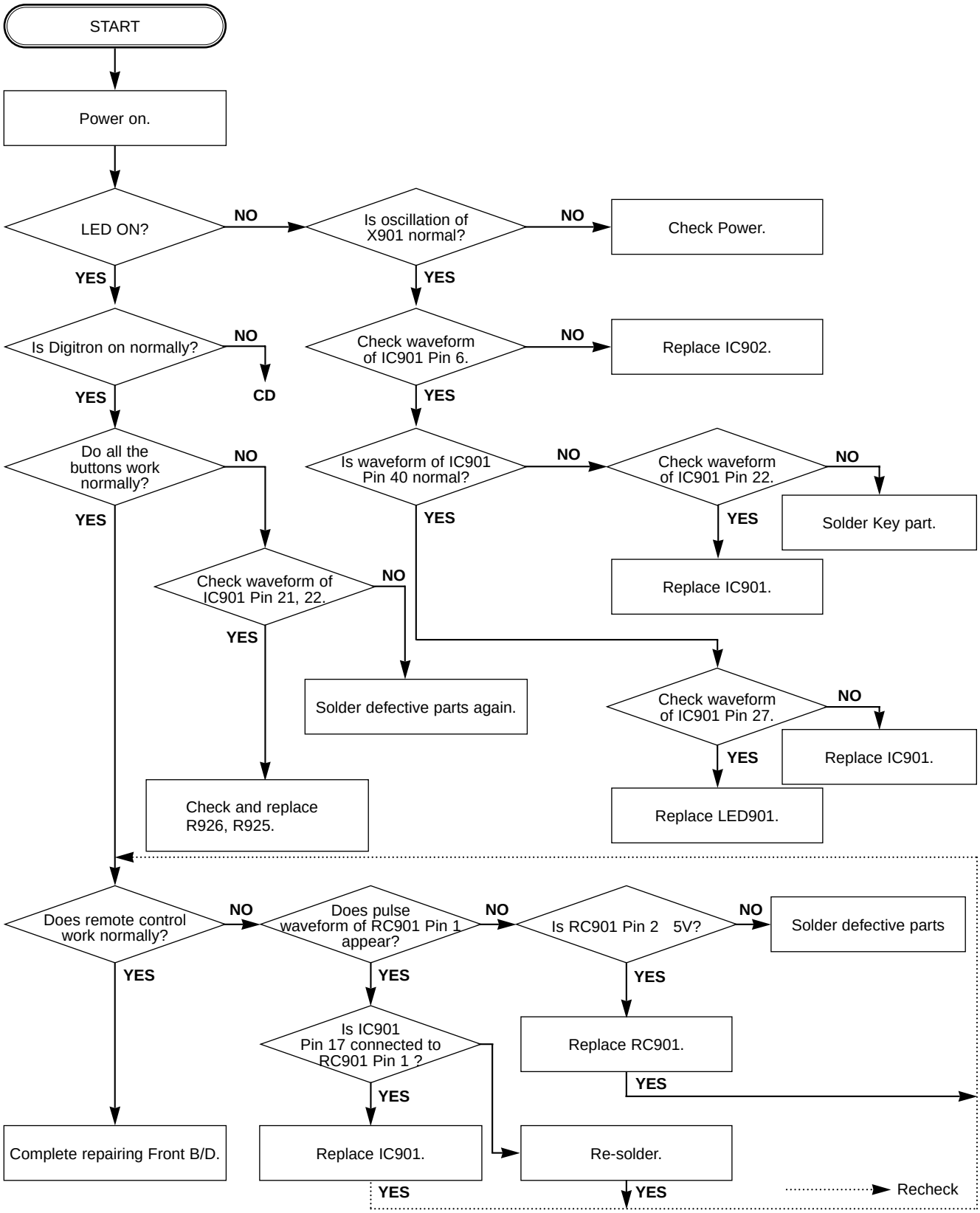

### F. Disc Error



## 3. PANTERA Circuit

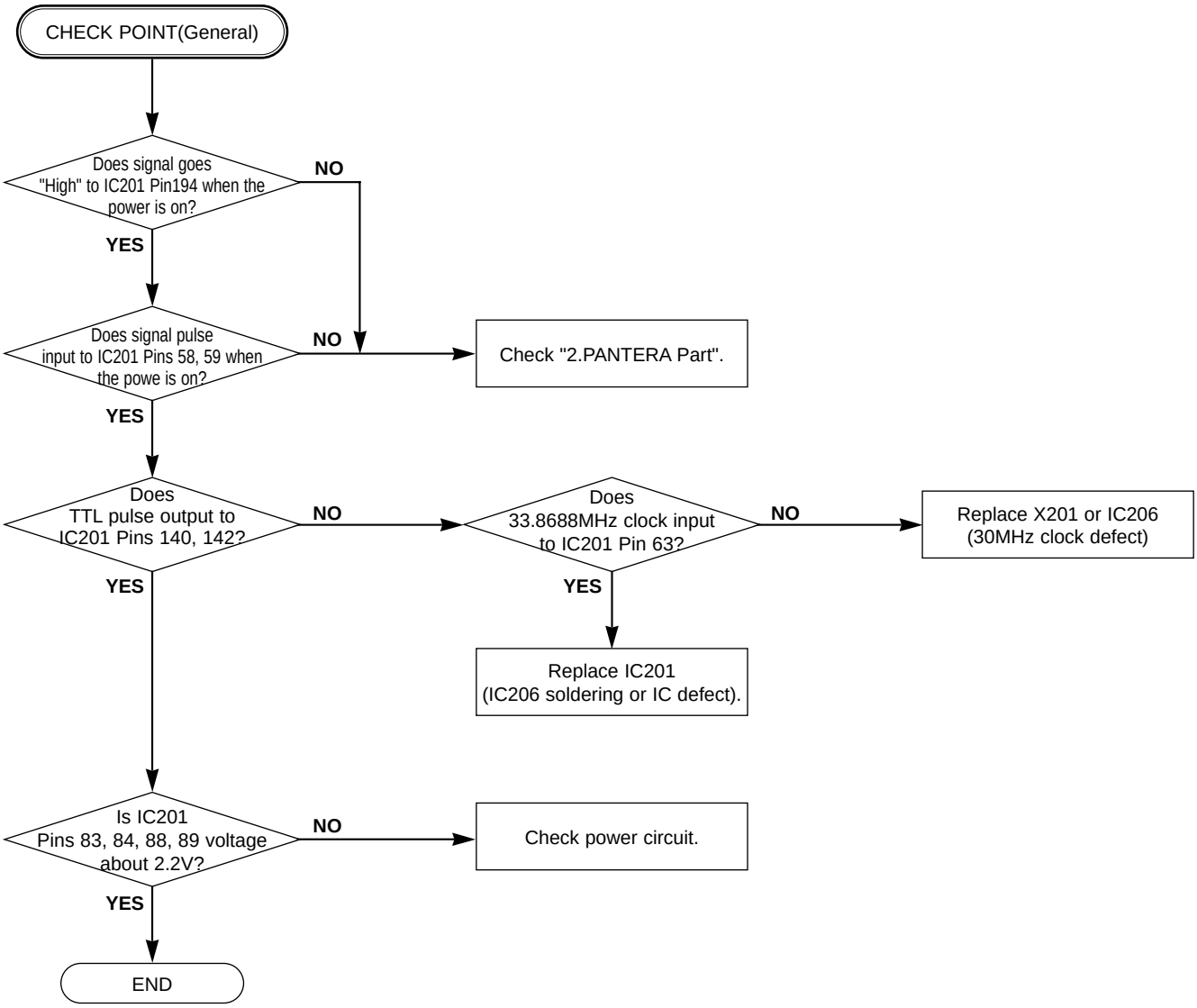


## 4. Front Circuit (Digitron & key)

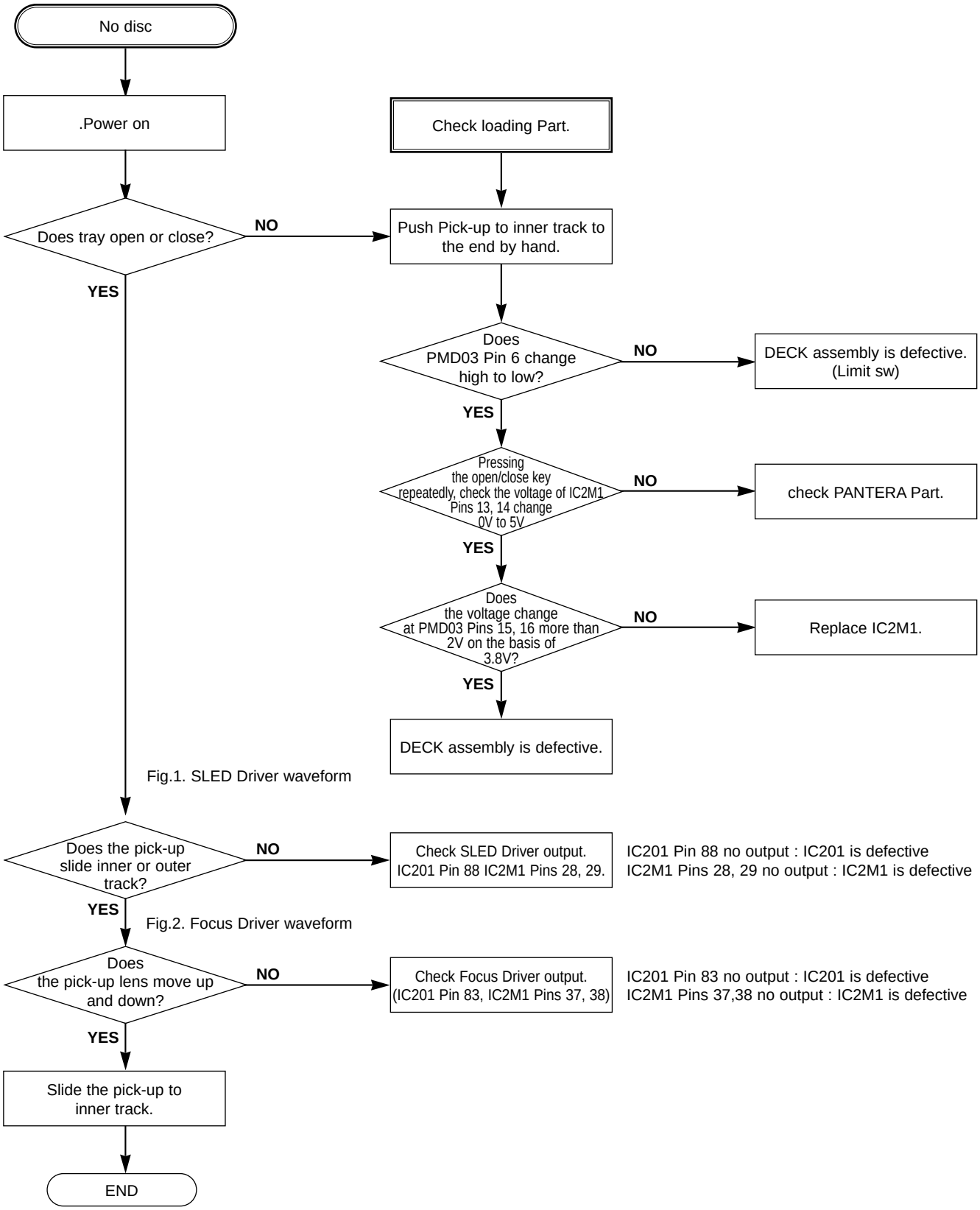


## 5. RF/Servo Circuit

**A.**


CHECK POINT(General)
Does signal goes "High" to IC201 Pin194 when the power is on?
NO
YES
Does signal pulse input to IC201 Pins 58, 59 when the powe is on?
NO
Check "2.PANTERA Part".
YES
Does TTL pulse output to IC201 Pins 140, 142?
NO
Does 33.8688MHz clock input to IC201 Pin 63?
NO
Replace X201 or IC206 (30MHz clock defect)
YES
YES
Replace IC201 (IC206 soldering or IC defect).
Is IC201 Pins 83, 84, 88, 89 voltage about 2.2V?
NO
Check power circuit.
YES
END

**B.**


No disc
.Power on
Does tray open or close?
NO
YES
Check loading Part.
Push Pick-up to inner track to the end by hand.
Does PMD03 Pin 6 change high to low?
NO
DECK assembly is defective. (Limit sw)
YES
Pressing the open/close key repeatedly, check the voltage of IC2M1 Pins 13, 14 change 0V to 5V
NO
check PANTERA Part.
YES
Does the voltage change at PMD03 Pins 15, 16 more than 2V on the basis of 3.8V?
NO
Replace IC2M1.
YES
DECK assembly is defective.
Fig.1. SLED Driver waveform
Does the pick-up slide inner or outer track?
NO
Check SLED Driver output. IC201 Pin 88 IC2M1 Pins 28, 29.
IC201 Pin 88 no output : IC201 is defective
IC2M1 Pins 28, 29 no output : IC2M1 is defective
YES
Fig.2. Focus Driver waveform
Does the pick-up lens move up and down?
NO
Check Focus Driver output. (IC201 Pin 83, IC2M1 Pins 37, 38)
IC201 Pin 83 no output : IC201 is defective
IC2M1 Pins 37,38 no output : IC2M1 is defective
YES
Slide the pick-up to inner track.
END

**C.**

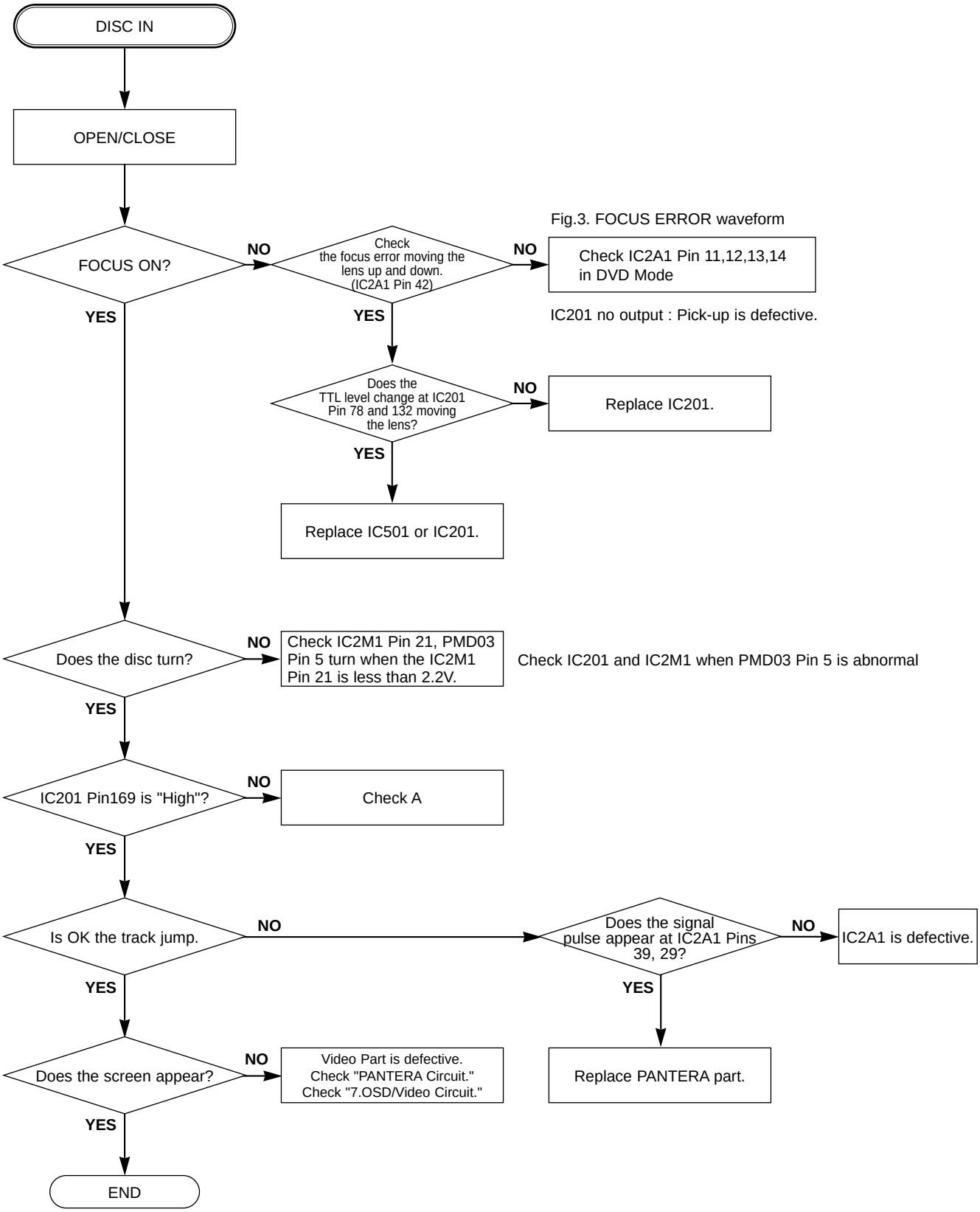
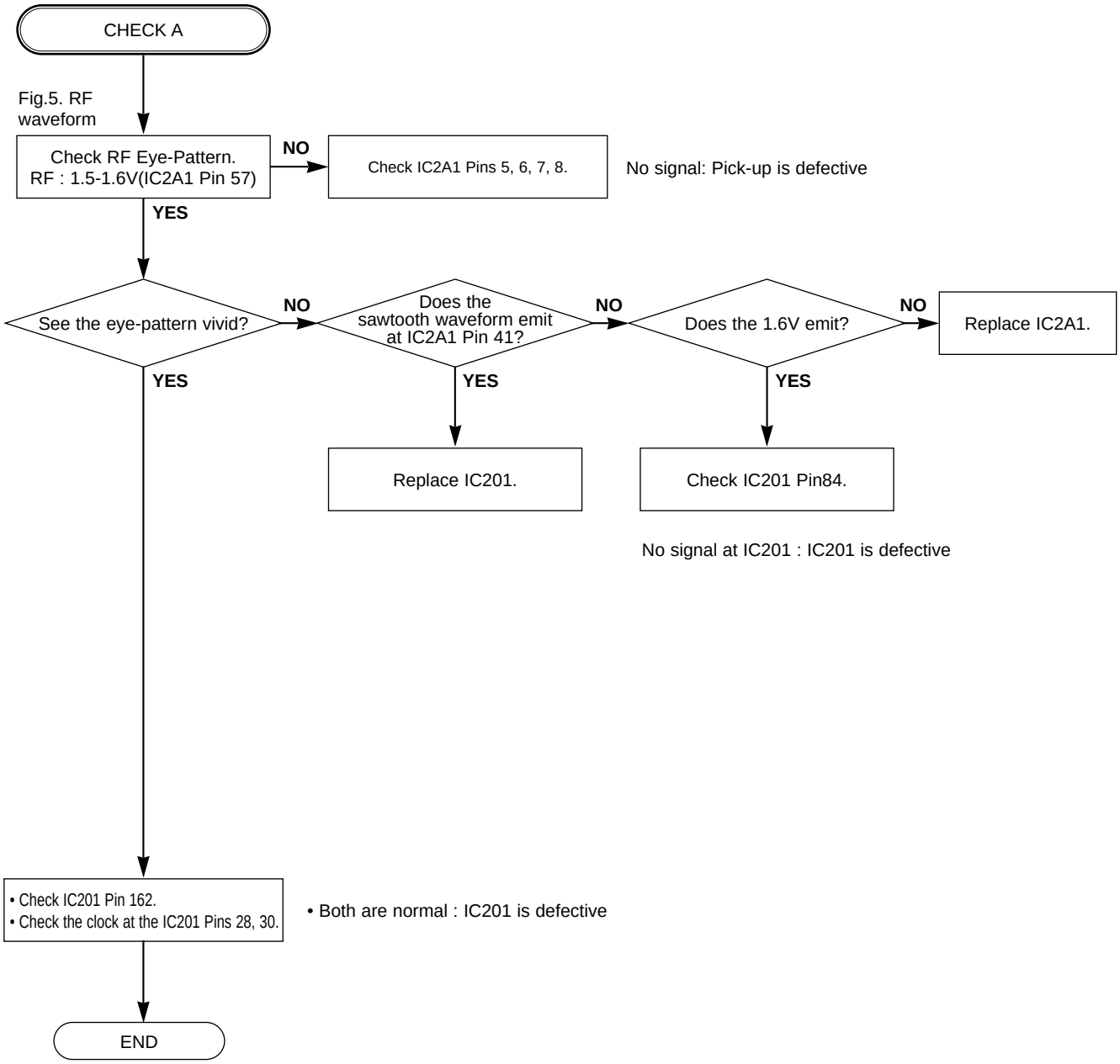



Fig.3. FOCUS ERROR waveform

IC201 no output : Pick-up is defective.

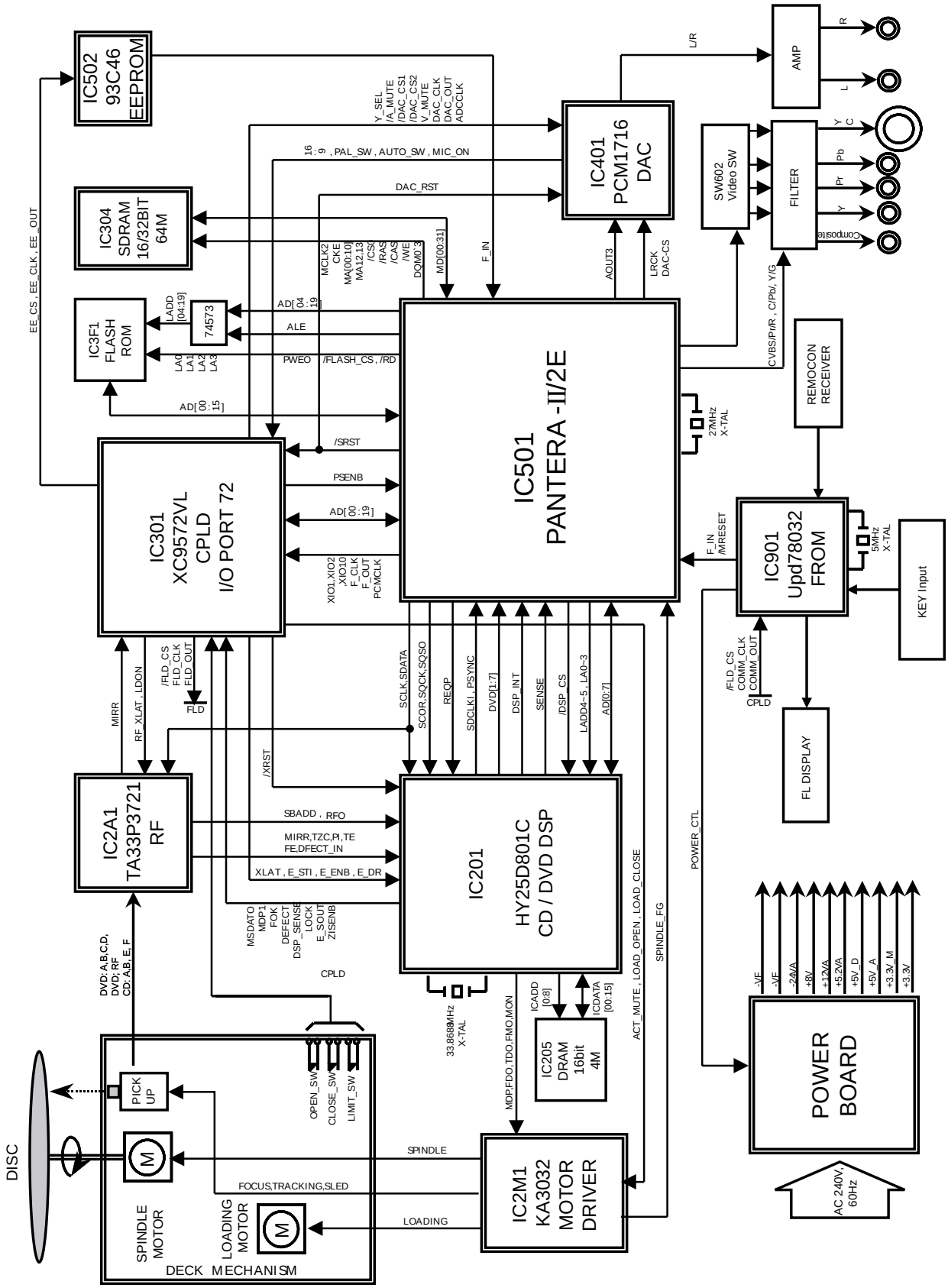
Check IC201 and IC2M1 when PMD03 Pin 5 is abnormal

**D.**

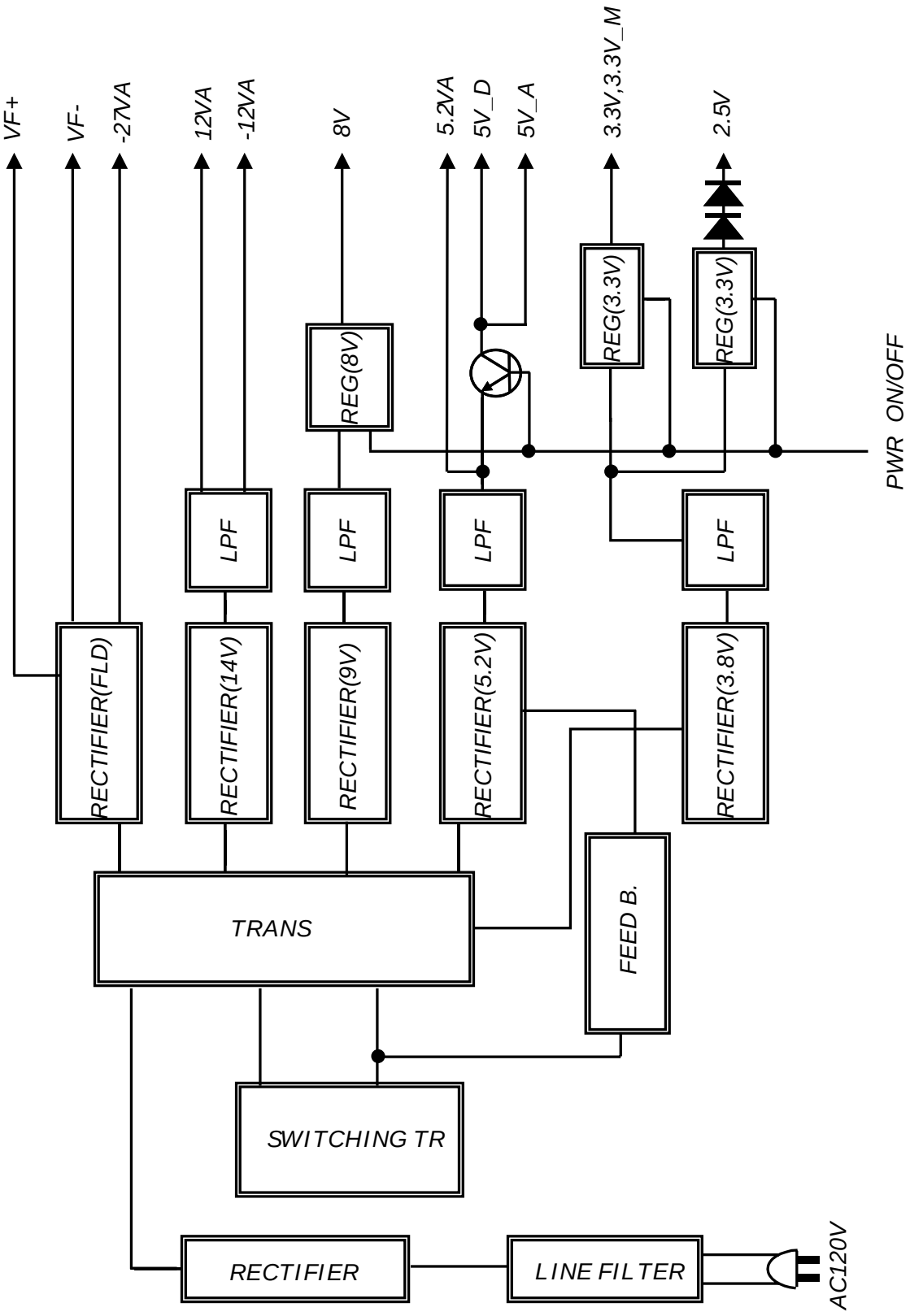

CHECK A
Fig.5. RF waveform
Check RF Eye-Pattern.
RF : 1.5-1.6V(IC2A1 Pin 57)
NO
Check IC2A1 Pins 5, 6, 7, 8.
No signal: Pick-up is defective
YES
See the eye-pattern vivid?
NO
Does the sawtooth waveform emit at IC2A1 Pin 41?
NO
Does the 1.6V emit?
NO
Replace IC2A1.
YES
YES
YES
Replace IC201.
Check IC201 Pin84.
No signal at IC201 : IC201 is defective
• Check IC201 Pin 162.
• Check the clock at the IC201 Pins 28, 30.
• Both are normal : IC201 is defective
END

# BLOCK DIAGRAMS

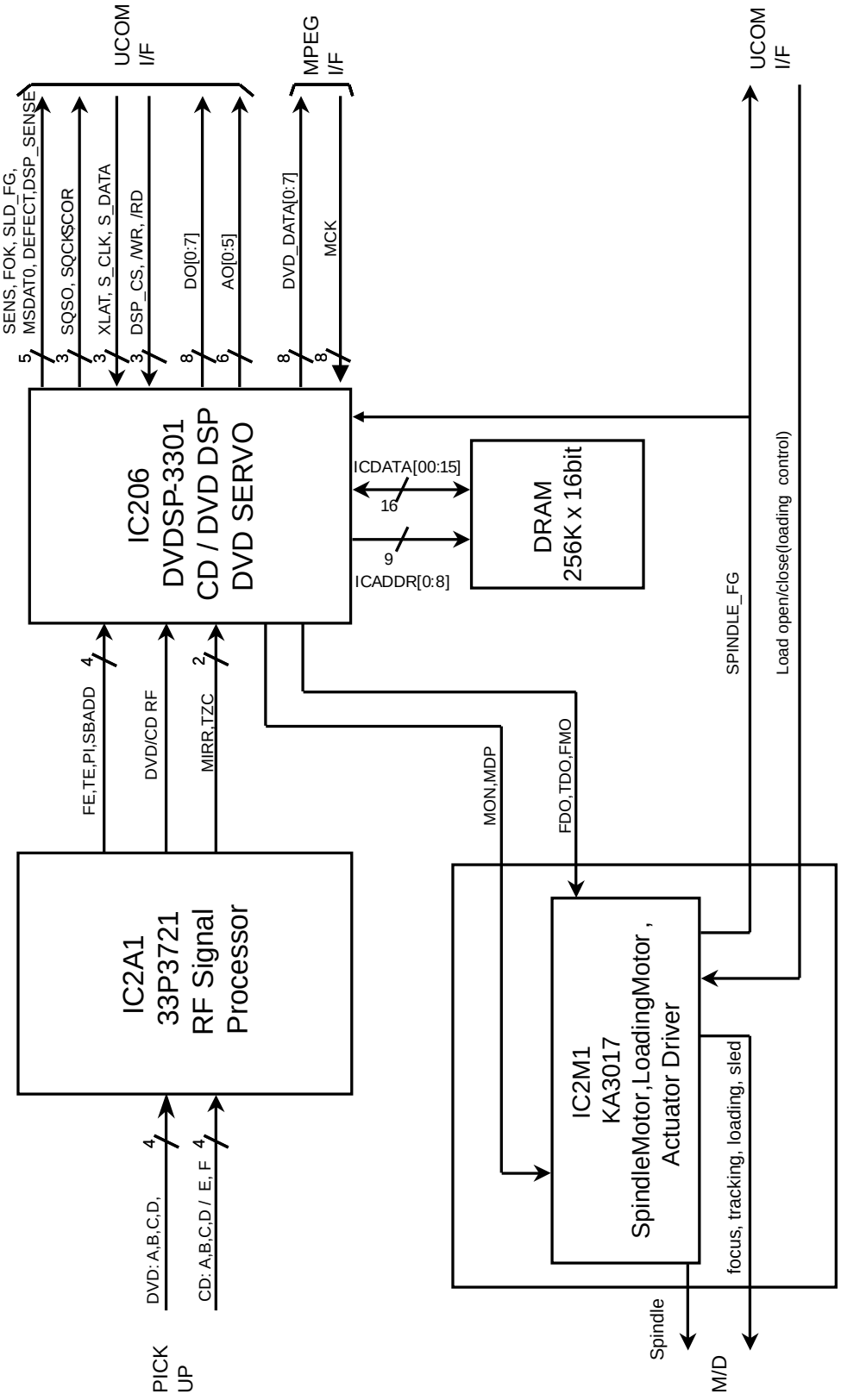
## 1. Overall Block Diagram



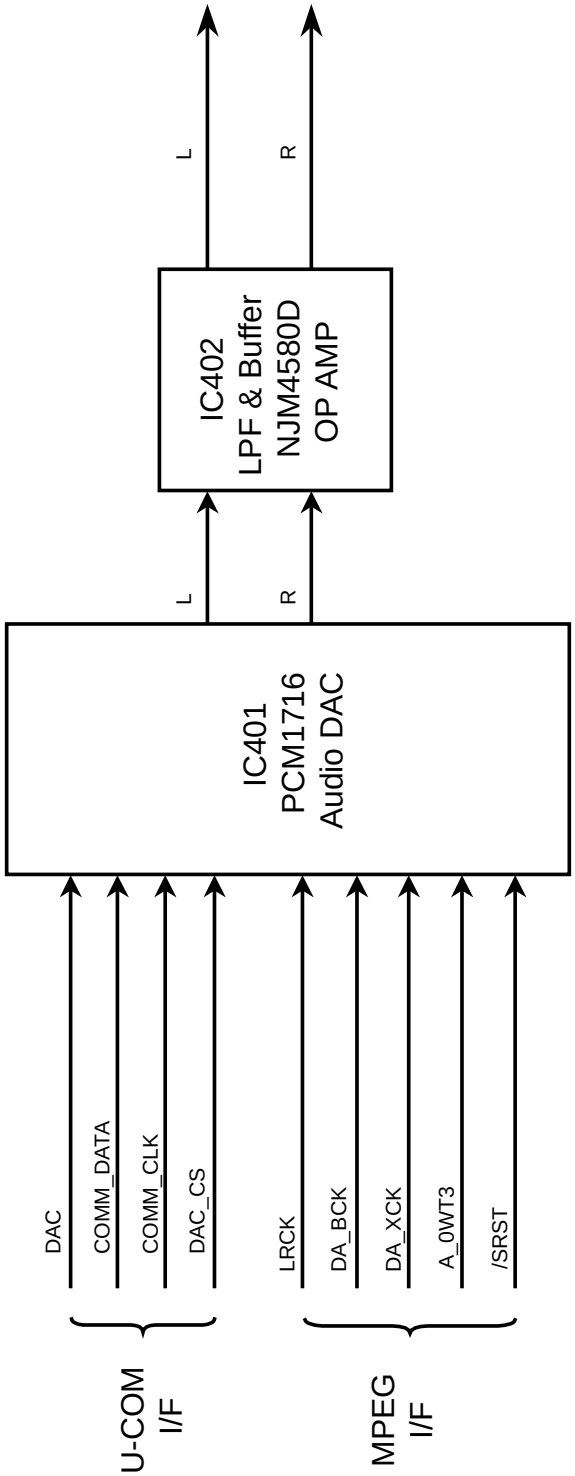
## 2. Power(SMPS) Block Diagram



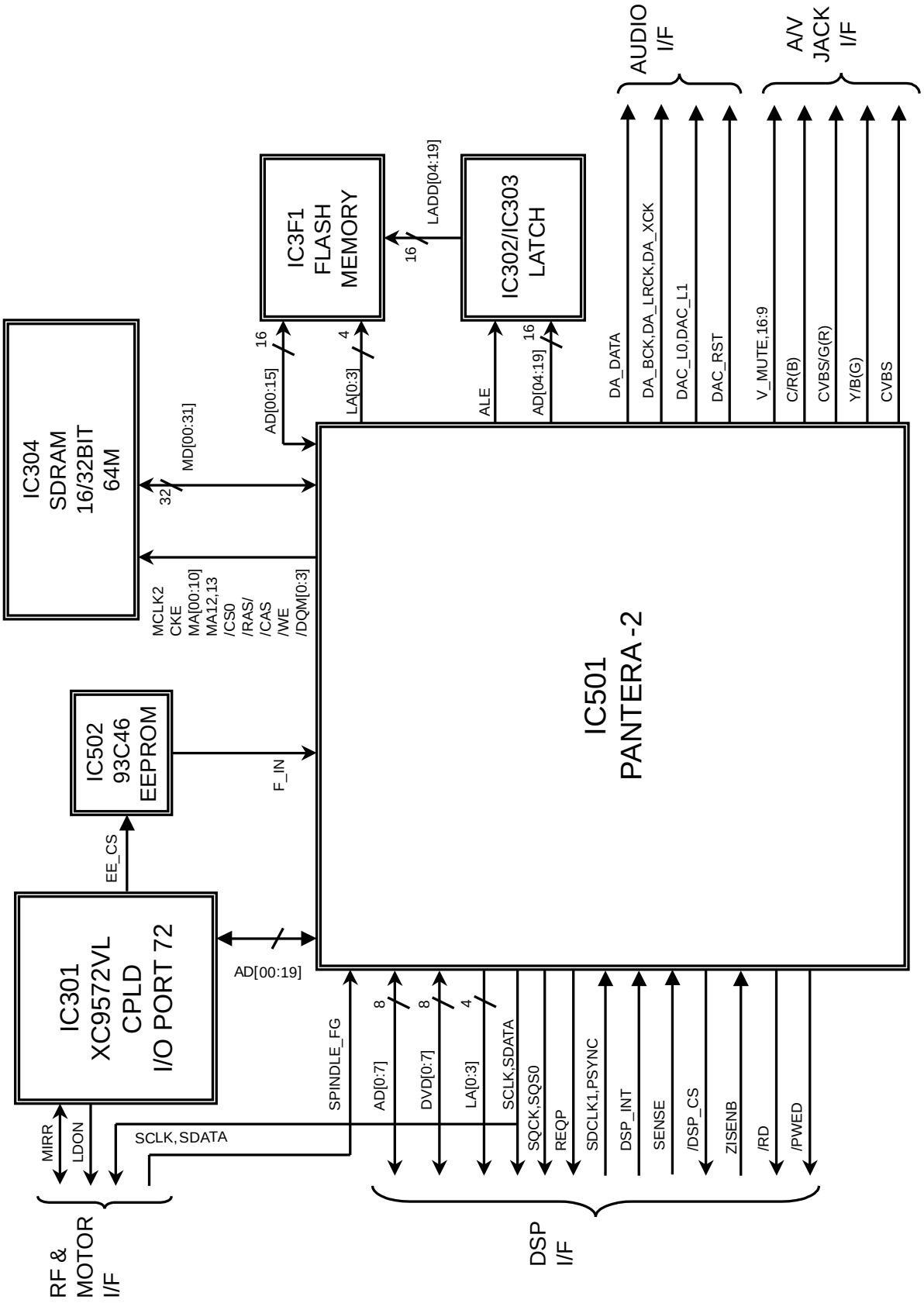
## 3. RF/CD DSP/DVD DSP/DVD SERVO Block Diagram



## 4. Audio Block Diagram



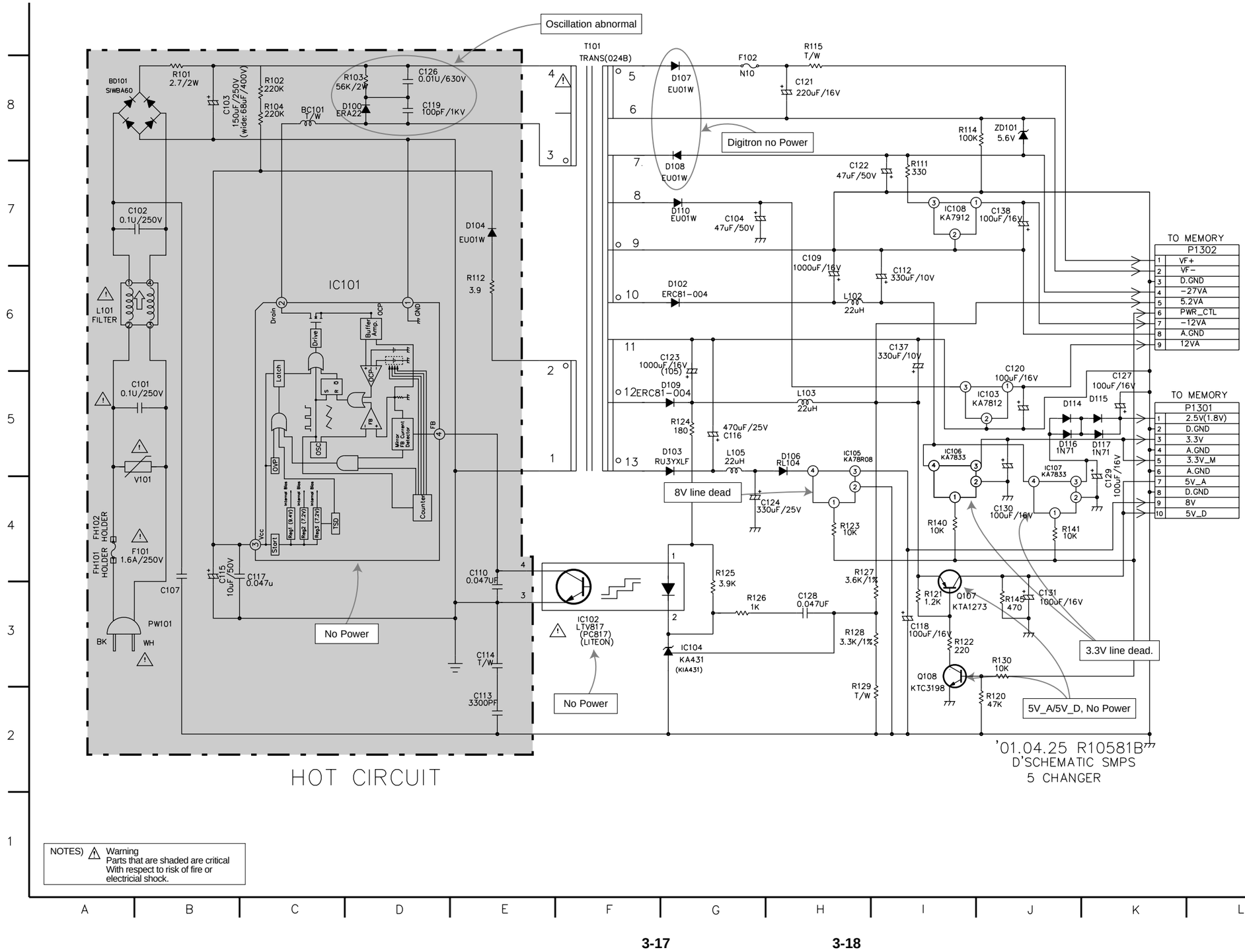
## 5. MPEG Block Diagram



# CIRCUIT DIAGRAM

## 1. POWER(SMPS) CIRCUIT DIAGRAM

**NOTE :**
1. Shaded(▩) parts are critical for safety. Replace only with specified part number.
2. Voltages are DC-measured with a digital voltmeter during Play mode.

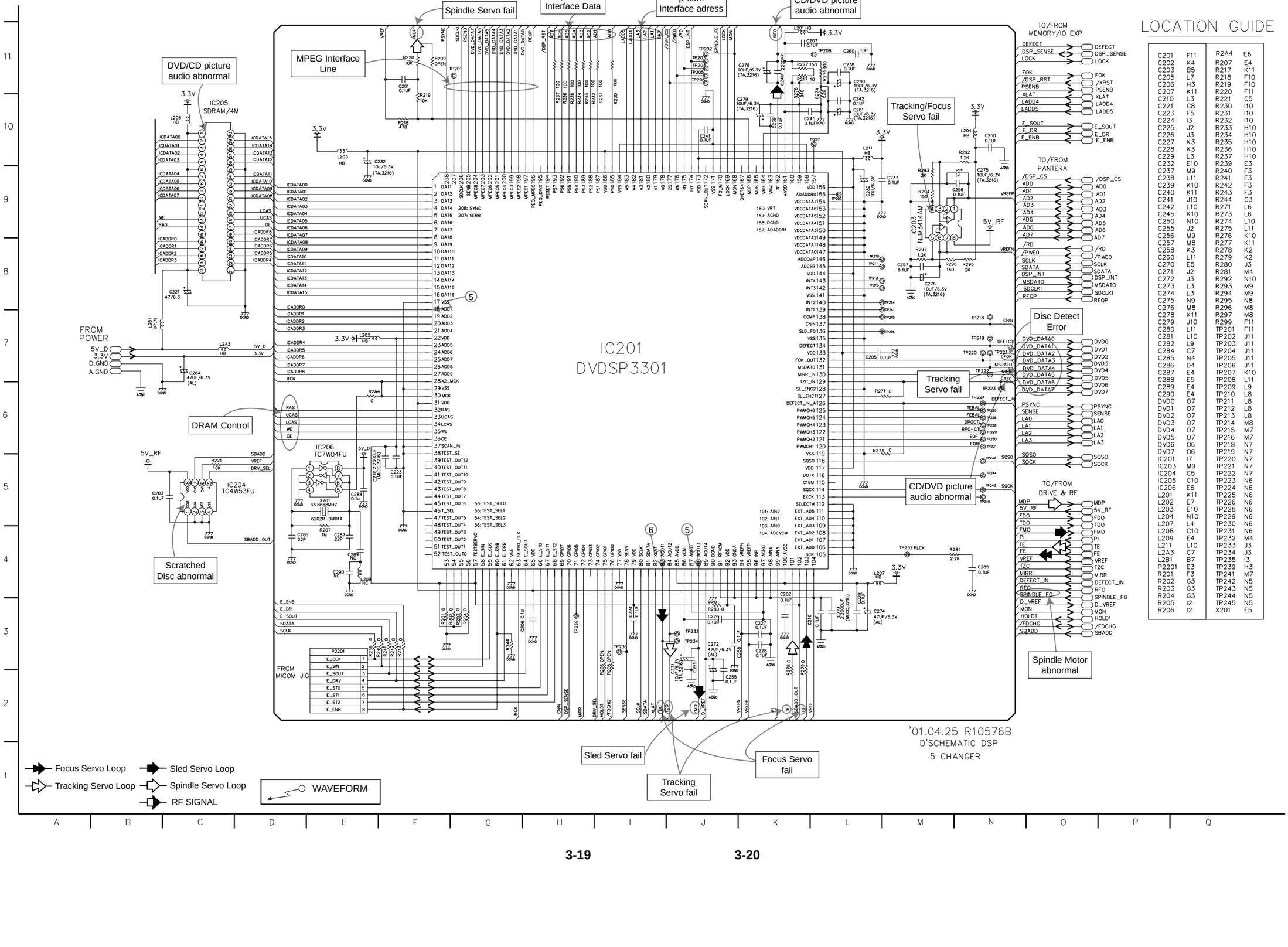



NOTES) ⚠ Warning
Parts that are shaded are critical
With respect to risk of fire or
electricial shock.

## LOCATION GUIDE

| | | | |
|---|---|---|---|
| BC101 | C8 | FH101 | A4 |
| BD101 | A8 | FH102 | A4 |
| C101 | A5 | IC101 | C6 |
| C102 | A7 | IC102 | F3 |
| C103 | B8 | IC103 | J5 |
| C104 | G7 | IC104 | G3 |
| C107 | B3 | IC105 | H5 |
| C109 | H7 | IC106 | I5 |
| C110 | E4 | IC107 | J5 |
| C112 | I6 | IC108 | I7 |
| C113 | E2 | L101 | A6 |
| C114 | E3 | L102 | H6 |
| C115 | B3 | L103 | H5 |
| C116 | G5 | L105 | G5 |
| C117 | C4 | P1301 | K5 |
| C118 | I3 | P1302 | L7 |
| C119 | D8 | PW101 | B3 |
| C120 | J6 | Q107 | I3 |
| C121 | H8 | Q108 | I3 |
| C122 | H7 | R101 | B8 |
| C123 | G6 | R102 | C8 |
| C124 | G4 | R103 | D8 |
| C126 | D8 | R104 | C8 |
| C127 | K5 | R111 | I7 |
| C128 | H3 | R112 | E6 |
| C129 | K4 | R114 | I8 |
| C130 | J4 | R115 | H9 |
| C131 | J3 | R120 | J2 |
| C137 | I6 | R121 | I3 |
| C138 | J7 | R122 | I3 |
| D100 | C8 | R123 | H4 |
| D102 | G6 | R124 | G5 |
| D103 | G5 | R125 | G4 |
| D104 | E7 | R126 | G3 |
| D106 | H5 | R127 | H4 |
| D107 | G8 | R128 | H3 |
| D108 | G7 | R129 | H2 |
| D109 | G5 | R130 | J3 |
| D110 | G7 | R140 | I4 |
| D114 | J5 | R141 | J4 |
| D115 | K5 | R145 | J3 |
| D116 | J5 | T101 | F9 |
| D117 | K5 | V101 | B4 |
| F102 | G8 | ZD101 | J8 |

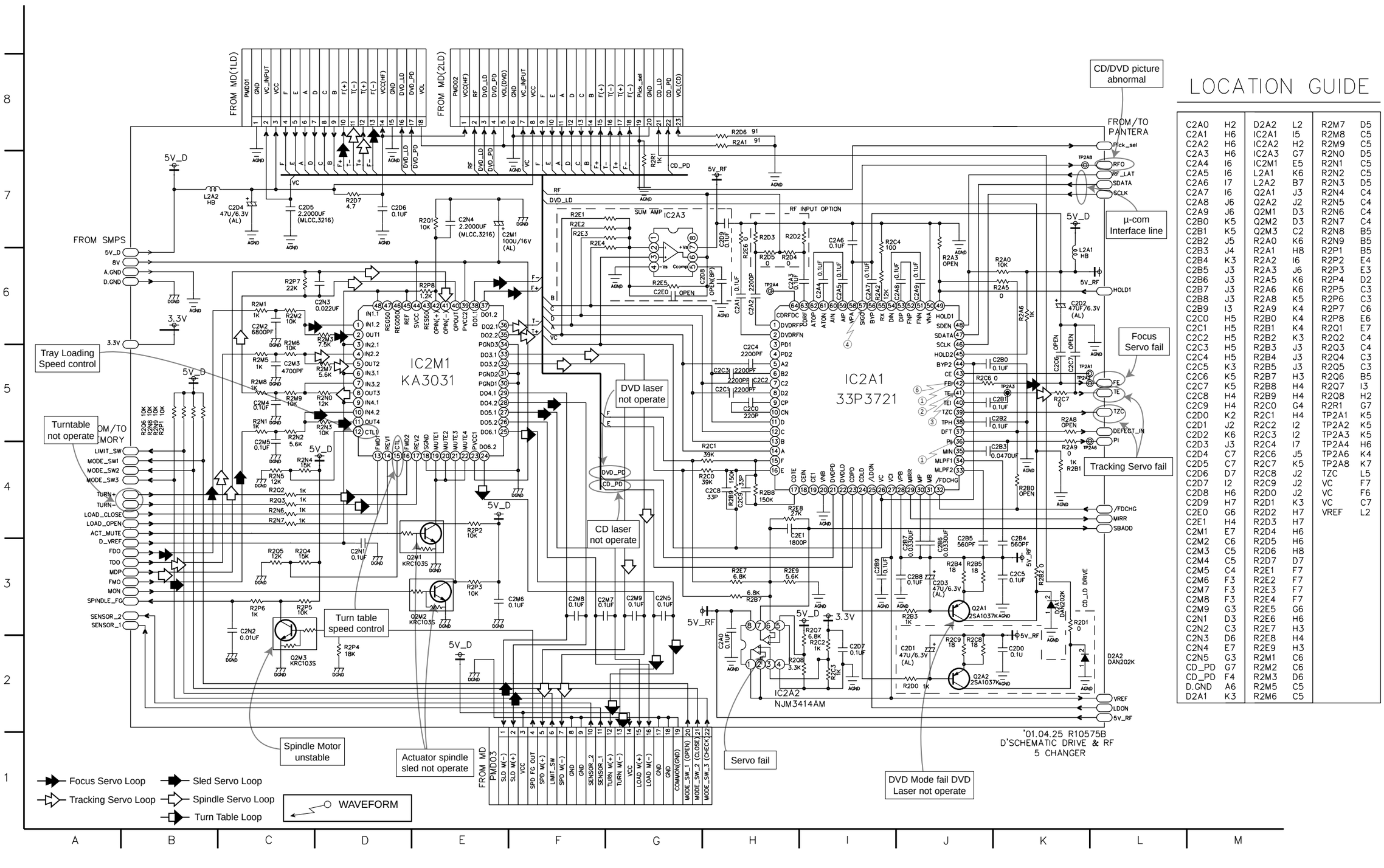
## 2. DVD DSP CIRCUIT DIAGRAM




## LOCATION GUIDE

| | | | |
|---|---|---|---|
| C201 | F11 | R2A4 | E6 |
| C202 | K4 | R207 | E4 |
| C203 | B5 | R217 | K11 |
| C205 | L7 | R218 | F10 |
| C206 | H3 | R219 | F10 |
| C207 | K11 | R220 | F11 |
| C210 | L3 | R221 | C5 |
| C221 | C8 | R230 | I10 |
| C223 | F5 | R231 | I10 |
| C224 | I3 | R232 | I10 |
| C225 | J2 | R233 | H10 |
| C226 | J3 | R234 | H10 |
| C227 | K3 | R235 | H10 |
| C228 | K3 | R236 | H10 |
| C229 | L3 | R237 | H10 |
| C232 | E10 | R239 | E3 |
| C237 | M9 | R240 | F3 |
| C238 | L11 | R241 | F3 |
| C239 | K10 | R242 | F3 |
| C240 | K11 | R243 | F3 |
| C241 | J10 | R244 | G3 |
| C242 | L10 | R271 | L6 |
| C245 | K10 | R273 | L6 |
| C250 | N10 | R274 | L10 |
| C255 | J2 | R275 | L11 |
| C256 | M9 | R276 | K10 |
| C257 | M8 | R277 | K11 |
| C258 | K3 | R278 | K2 |
| C260 | L11 | R279 | K2 |
| C270 | E5 | R280 | J3 |
| C271 | J2 | R281 | M4 |
| C272 | J3 | R292 | N10 |
| C273 | L3 | R293 | M9 |
| C274 | L3 | R294 | M9 |
| C275 | N9 | R295 | N8 |
| C276 | M8 | R296 | M8 |
| C278 | K11 | R297 | M8 |
| C279 | J10 | R299 | F11 |
| C280 | L11 | TP201 | F11 |
| C281 | L10 | TP202 | J11 |
| C282 | L9 | TP203 | J11 |
| C284 | C7 | TP204 | J11 |
| C285 | N4 | TP205 | J11 |
| C286 | D4 | TP206 | J11 |
| C287 | E4 | TP207 | K10 |
| C288 | E5 | TP208 | L11 |
| C289 | E4 | TP209 | L9 |
| C290 | E4 | TP210 | L8 |
| DVD0 | O7 | TP211 | L8 |
| DVD1 | O7 | TP212 | L8 |
| DVD2 | O7 | TP213 | L8 |
| DVD3 | O7 | TP214 | M8 |
| DVD4 | O7 | TP215 | M7 |
| DVD5 | O7 | TP216 | M7 |
| DVD6 | O6 | TP218 | N7 |
| DVD7 | O6 | TP219 | N7 |
| IC201 | I7 | TP220 | N7 |
| IC203 | M9 | TP221 | N7 |
| IC204 | C5 | TP222 | N6 |
| IC205 | C10 | TP223 | N6 |
| IC206 | E6 | TP224 | N6 |
| L201 | K11 | TP225 | N6 |
| L202 | E7 | TP226 | N6 |
| L203 | E10 | TP228 | N6 |
| L204 | N10 | TP229 | N6 |
| L207 | L4 | TP230 | N6 |
| L208 | C10 | TP231 | N6 |
| L209 | E4 | TP232 | M4 |
| L211 | L10 | TP233 | J3 |
| L2A3 | C7 | TP234 | J3 |
| L2B1 | B7 | TP235 | I3 |
| P2201 | E3 | TP239 | H3 |
| R201 | F3 | TP241 | M7 |
| R202 | G3 | TP242 | N5 |
| R203 | G3 | TP243 | N5 |
| R204 | G3 | TP244 | N5 |
| R205 | I2 | TP245 | N5 |
| R206 | I2 | X201 | E5 |

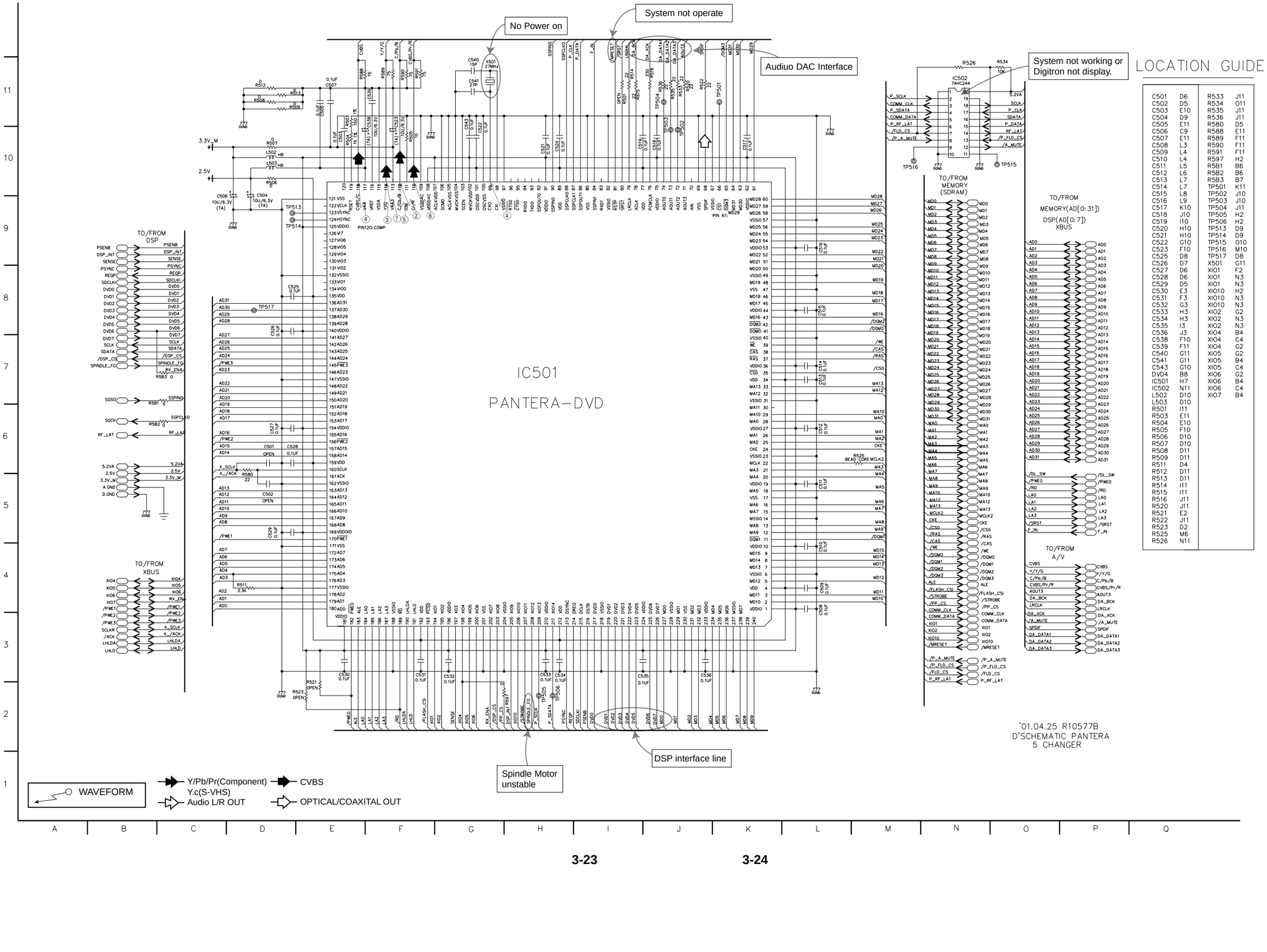
# 3. DRIVE & RF CIRCUIT DIAGRAM




## LOCATION GUIDE

| | | | | | |
|---|---|---|---|---|---|
| C2A0 | H2 | D2A2 | L2 | R2M7 | D5 |
| C2A1 | H6 | IC2A1 | I5 | R2M8 | C5 |
| C2A2 | H6 | IC2A2 | H2 | R2M9 | C5 |
| C2A3 | H6 | IC2A3 | G7 | R2N0 | D5 |
| C2A4 | I6 | IC2M1 | E5 | R2N1 | C5 |
| C2A5 | I6 | L2A1 | K6 | R2N2 | C5 |
| C2A6 | I7 | L2A2 | B7 | R2N3 | D5 |
| C2A7 | I6 | Q2A1 | J3 | R2N4 | C4 |
| C2A8 | J6 | Q2A2 | J2 | R2N5 | C4 |
| C2A9 | J6 | Q2M1 | D3 | R2N6 | C4 |
| C2B0 | K5 | Q2M2 | D3 | R2N7 | C4 |
| C2B1 | K5 | Q2M3 | C2 | R2N8 | B5 |
| C2B2 | J5 | R2A0 | K6 | R2N9 | B5 |
| C2B3 | J4 | R2A1 | H8 | R2P1 | B5 |
| C2B4 | K3 | R2A2 | I6 | R2P2 | E4 |
| C2B5 | J3 | R2A3 | J6 | R2P3 | E3 |
| C2B6 | J3 | R2A5 | K6 | R2P4 | D2 |
| C2B7 | J3 | R2A6 | K6 | R2P5 | C3 |
| C2B8 | J3 | R2A8 | K5 | R2P6 | C3 |
| C2B9 | I3 | R2A9 | K4 | R2P7 | C6 |
| C2C0 | H5 | R2B0 | K4 | R2P8 | E6 |
| C2C1 | H5 | R2B1 | K4 | R2Q1 | E7 |
| C2C2 | H5 | R2B2 | K3 | R2Q2 | C4 |
| C2C3 | H5 | R2B3 | J3 | R2Q3 | C4 |
| C2C4 | H5 | R2B4 | J3 | R2Q4 | C3 |
| C2C5 | K3 | R2B5 | J3 | R2Q5 | C3 |
| C2C6 | K5 | R2B7 | H3 | R2Q6 | B5 |
| C2C7 | K5 | R2B8 | H4 | R2Q7 | I3 |
| C2C8 | H4 | R2B9 | H4 | R2Q8 | H2 |
| C2C9 | H4 | R2C0 | G4 | R2R1 | G7 |
| C2D0 | K2 | R2C1 | H4 | TP2A1 | K5 |
| C2D1 | J2 | R2C2 | I2 | TP2A2 | K5 |
| C2D2 | K6 | R2C3 | I2 | TP2A3 | K5 |
| C2D3 | J3 | R2C4 | I7 | TP2A4 | H6 |
| C2D4 | C7 | R2C6 | J5 | TP2A6 | K4 |
| C2D5 | C7 | R2C7 | K5 | TP2A8 | K7 |
| C2D6 | D7 | R2C8 | J2 | TZC | L5 |
| C2D7 | I2 | R2C9 | J2 | VC | F7 |
| C2D8 | H6 | R2D0 | J2 | VC | F6 |
| C2D9 | H7 | R2D1 | K3 | VC | C7 |
| C2E0 | G6 | R2D2 | H7 | VREF | L2 |
| C2E1 | H4 | R2D3 | H7 | | |
| C2M1 | E7 | R2D4 | H6 | | |
| C2M2 | C6 | R2D5 | H6 | | |
| C2M3 | C5 | R2D6 | H8 | | |
| C2M4 | C5 | R2D7 | D7 | | |
| C2M5 | C4 | R2E1 | F7 | | |
| C2M6 | F3 | R2E2 | F7 | | |
| C2M7 | F3 | R2E3 | F7 | | |
| C2M8 | F3 | R2E4 | F7 | | |
| C2M9 | G3 | R2E5 | G6 | | |
| C2N1 | D3 | R2E6 | H6 | | |
| C2N2 | C3 | R2E7 | H3 | | |
| C2N3 | D6 | R2E8 | H4 | | |
| C2N4 | E7 | R2E9 | H3 | | |
| C2N5 | G3 | R2M1 | C6 | | |
| CD_PD | G7 | R2M2 | C6 | | |
| CD_PD | F4 | R2M3 | D6 | | |
| D.GND | A6 | R2M5 | C5 | | |
| D2A1 | K3 | R2M6 | C5 | | |

# 4. PANTERA CIRCUIT DIAGRAM

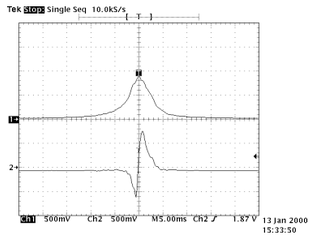



## LOCATION GUIDE

| | | | |
|---|---|---|---|
| C501 | D6 | R533 | J11 |
| C502 | D5 | R534 | O11 |
| C503 | E10 | R535 | J11 |
| C504 | D9 | R536 | J11 |
| C505 | E11 | R580 | D5 |
| C506 | C9 | R588 | E11 |
| C507 | E11 | R589 | F11 |
| C508 | L3 | R590 | F11 |
| C509 | L4 | R591 | F11 |
| C510 | L4 | R597 | H2 |
| C511 | L5 | R5B1 | B6 |
| C512 | L6 | R5B2 | B6 |
| C513 | L7 | R5B3 | B7 |
| C514 | L7 | TP501 | K11 |
| C515 | L8 | TP502 | J10 |
| C516 | L9 | TP503 | J10 |
| C517 | K10 | TP504 | J11 |
| C518 | J10 | TP505 | H2 |
| C519 | I10 | TP506 | H2 |
| C520 | H10 | TP513 | D9 |
| C521 | H10 | TP514 | D9 |
| C522 | G10 | TP515 | O10 |
| C523 | F10 | TP516 | M10 |
| C525 | D8 | TP517 | D8 |
| C526 | D7 | X501 | G11 |
| C527 | D6 | XIO1 | F2 |
| C528 | D6 | XIO1 | N3 |
| C529 | D5 | XIO1 | N3 |
| C530 | E3 | XIO10 | H2 |
| C531 | F3 | XIO10 | N3 |
| C532 | G3 | XIO10 | N3 |
| C533 | H3 | XIO2 | G2 |
| C534 | H3 | XIO2 | N3 |
| C535 | I3 | XIO2 | N3 |
| C536 | J3 | XIO4 | B4 |
| C538 | F10 | XIO4 | C4 |
| C539 | F11 | XIO4 | G2 |
| C540 | G11 | XIO5 | G2 |
| C541 | G11 | XIO5 | B4 |
| C543 | G10 | XIO5 | C4 |
| DVD4 | B8 | XIO6 | G2 |
| C501 | H7 | XIO6 | B4 |
| IC502 | N11 | XIO6 | C4 |
| L502 | D10 | XIO7 | B4 |
| L503 | D10 | | |
| R501 | I11 | | |
| R503 | E11 | | |
| R504 | E10 | | |
| R505 | F10 | | |
| R506 | D10 | | |
| R507 | D10 | | |
| R508 | D11 | | |
| R509 | D11 | | |
| R511 | D4 | | |
| R512 | D11 | | |
| R513 | D11 | | |
| R514 | I11 | | |
| R515 | I11 | | |
| R516 | J11 | | |
| R520 | J11 | | |
| R521 | E2 | | |
| R522 | J11 | | |
| R523 | D2 | | |
| R525 | M6 | | |
| R526 | N11 | | |

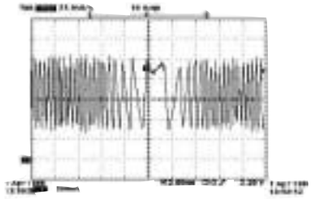
## • WAVEFORMS

①



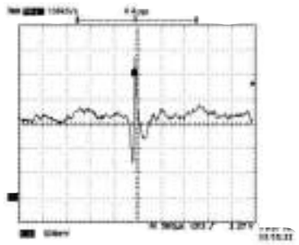

IC2A1 Pin 42, Focus Error
IC2A1 Pin 36, Pi

②



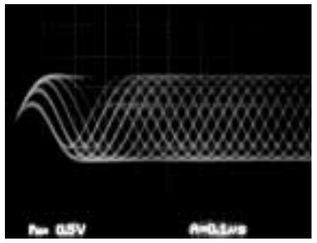
IC2A1 Pin 41
Tracking Error

③



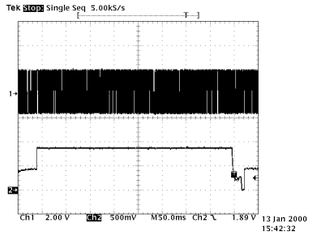
IC2A1 Pin 41
VBR TRACKING Error

④



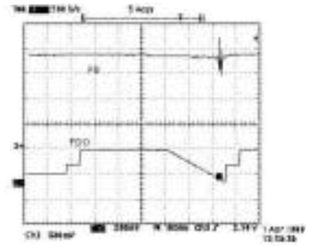

IC2A1 Pin 57,
RF

⑤



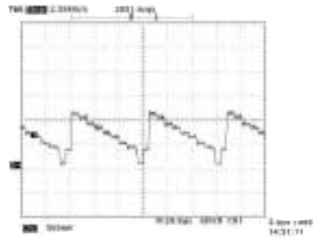

IC201 Pin 88, SLED Drive(FMO)
IC201 Pin 18, SLED FG

⑥



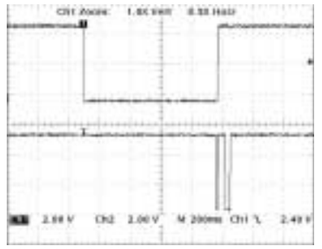

IC2A1 Pin42, Focus Error(in Focus Search)
IC201 Pin 83, Focus Drive(FDO)

⑦



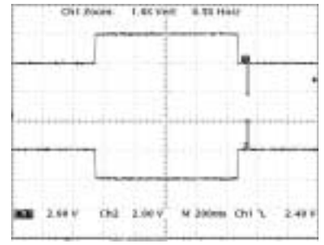
IC501 Pin 114
Component Y

①



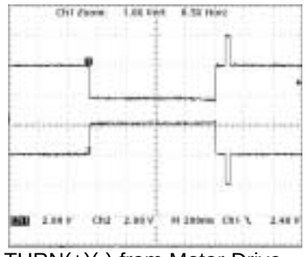
TURN(+)(-) Signal from µ-com

②



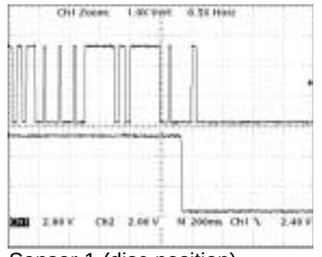
TURN(+)(-) from Motor Drive
Forward turn

③



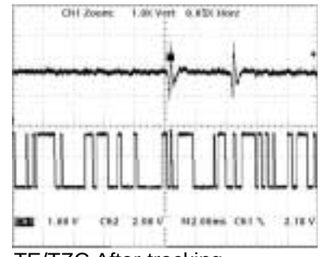
TURN(+)(-) from Motor Drive
Reverse turn

④



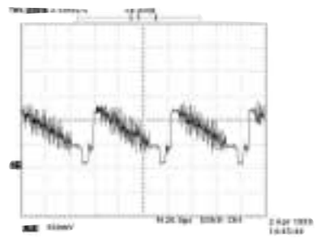
Sensor 1 (disc position)
Sensor 2 (disc ready)

⑤



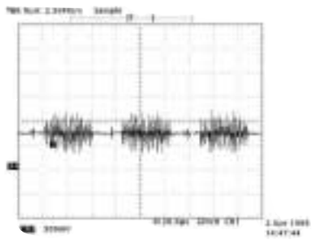
TE/TZC After tracking
servo ON (Play mode)

①



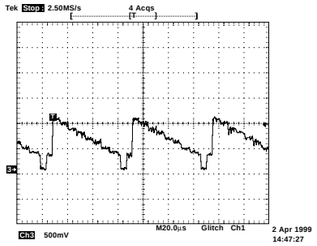
IC501 Pin 118, Composite

②



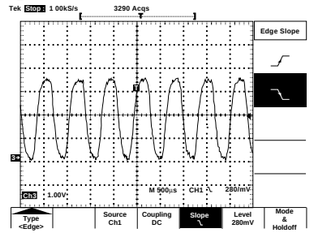
IC501 Pin 112, Chrominance
(Super video out Mode)

③



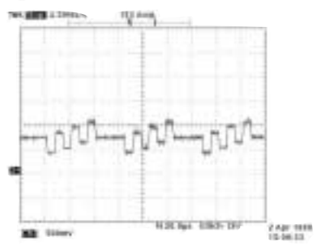

IC501 Pin 114, Luminance
(Super video out Mode)

④



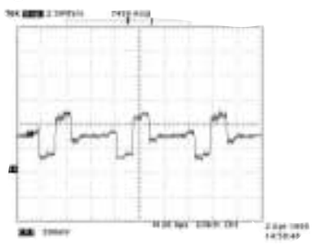

IC501 Pin 99,
PANTER MAIN

⑤



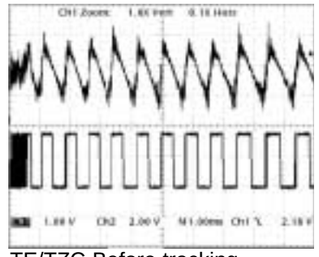
IC501 Pin 112
Component Pb

⑥



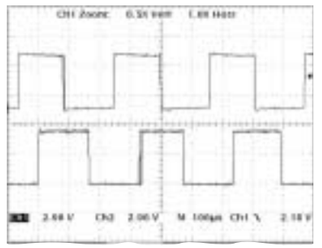
IC501 Pin 110
Component Pr

⑥



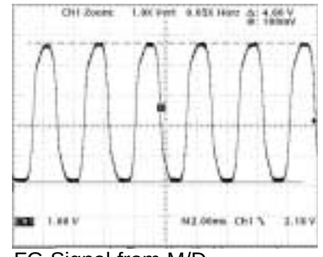
TE/TZC Before tracking
servo ON

⑦



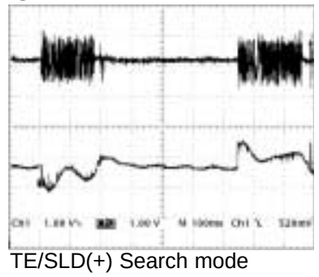
TZC/MIRR (Search mode)

⑧



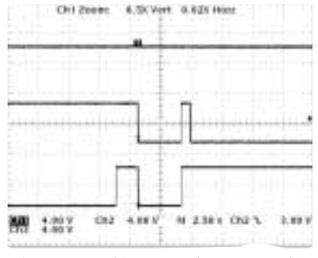
FG Signal from M/D
(Play mode)

⑨



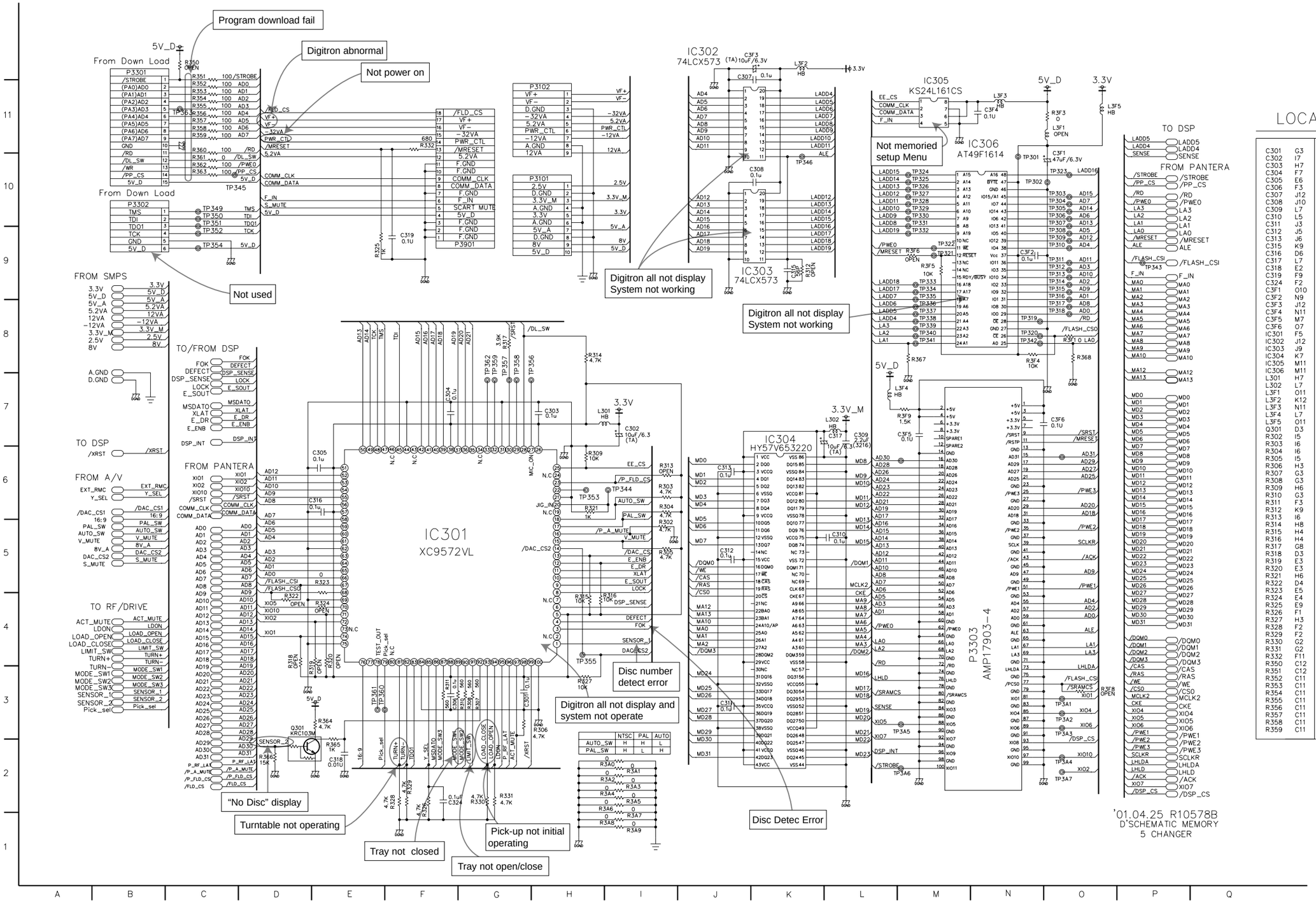
TE/SLD(+) Search mode
(outter & inner)

⑩



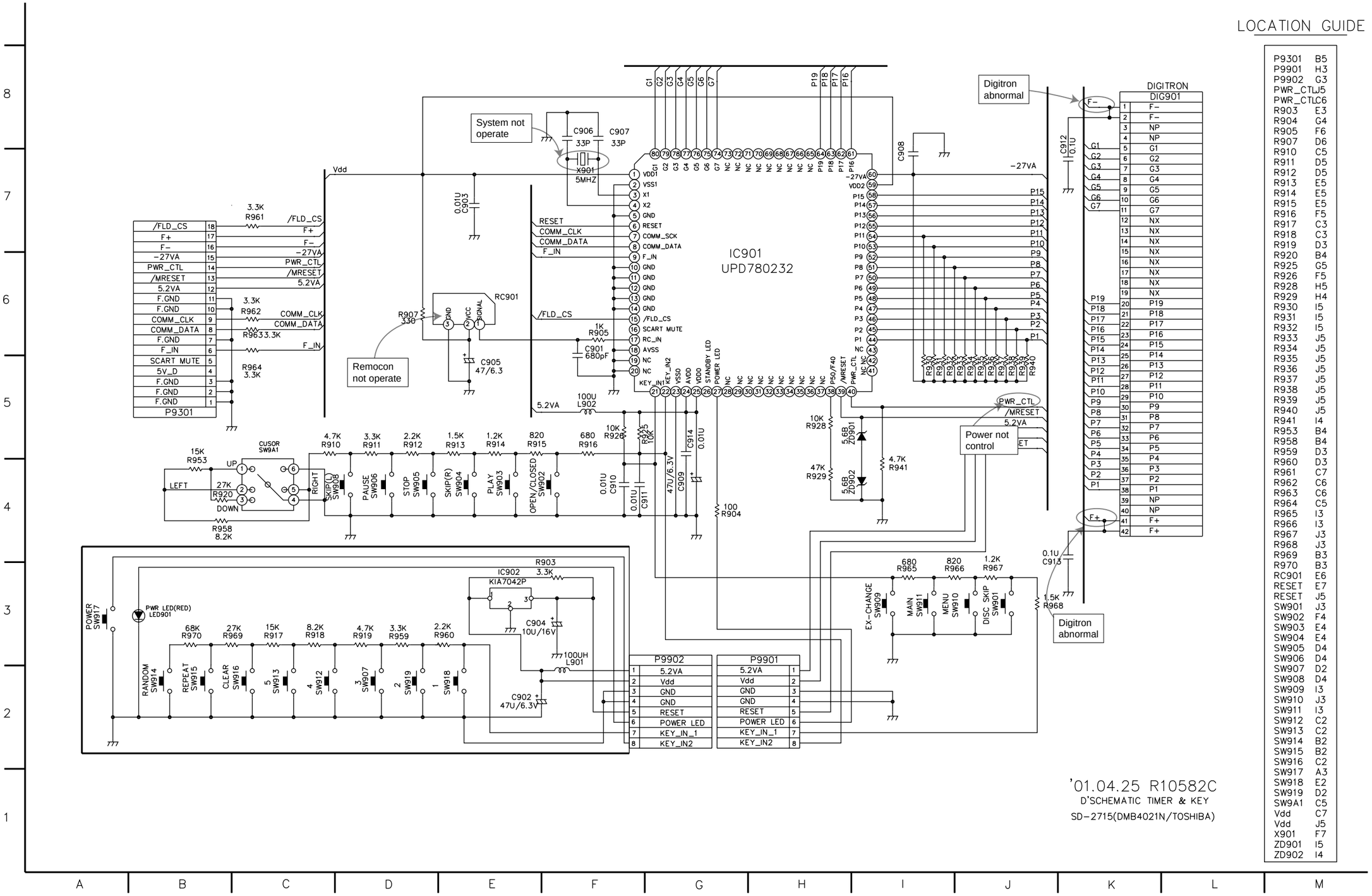
Tray open Tray closed

# 5. MEMORY CIRCUIT DIAGRAM




| | | | | | |
|---|---|---|---|---|---|
| C301 | G3 | R360 | C11 | TP356 | H7 |
| C302 | I7 | R361 | C10 | TP357 | G7 |
| C303 | H7 | R362 | C10 | TP358 | G7 |
| C304 | F7 | R363 | C10 | TP359 | G7 |
| C305 | E6 | R364 | E3 | TP360 | E3 |
| C306 | F3 | R365 | E2 | TP361 | E3 |
| C307 | J12 | R366 | D2 | TP362 | G7 |
| C308 | J10 | R367 | M8 | TP363 | C11 |
| C309 | L7 | R368 | O8 | TP3A1 | O3 |
| C310 | L5 | R3A0 | H2 | TP3A2 | O3 |
| C311 | J3 | R3A1 | I2 | TP3A3 | O3 |
| C312 | J5 | R3A2 | H2 | TP3A4 | O2 |
| C313 | J6 | R3A3 | I2 | TP3A5 | L3 |
| C315 | K9 | R3A4 | H2 | TP3A6 | L2 |
| C316 | D6 | R3A5 | I2 | XIO4 | P3 |
| C317 | L7 | R3A6 | H2 | XIO4 | P3 |
| C318 | E2 | R3A7 | I1 | XIO5 | D4 |
| C319 | F9 | R3A8 | H1 | XIO5 | L3 |
| C324 | F2 | R3A9 | I1 | XIO5 | P3 |
| C3F1 | O10 | R3F1 | O8 | XIO5 | P3 |
| C3F2 | N9 | R3F3 | O11 | XIO6 | O3 |
| C3F3 | J12 | R3F4 | N8 | XIO6 | P3 |
| C3F4 | N11 | R3F5 | M9 | XIO6 | P3 |
| C3F5 | M7 | R3F6 | M9 | XIO7 | L3 |
| C3F6 | O7 | R3F8 | O3 | XIO7 | P2 |
| IC301 | F5 | R3F9 | M7 | XIO7 | P2 |
| IC302 | J12 | SCLKR | O5 | | |
| IC303 | J9 | TP301 | N10 | | |
| IC304 | K7 | TP302 | N10 | | |
| IC305 | M11 | TP303 | O10 | | |
| IC306 | M11 | TP304 | O10 | | |
| L301 | H7 | TP305 | O10 | | |
| L302 | L7 | TP306 | O10 | | |
| L3F1 | O11 | TP307 | O10 | | |
| L3F2 | K12 | TP308 | O9 | | |
| L3F3 | N11 | TP309 | O9 | | |
| L3F4 | L7 | TP310 | O9 | | |
| L3F5 | O11 | TP311 | O9 | | |
| Q301 | D3 | TP312 | O9 | | |
| R302 | I5 | TP313 | O9 | | |
| R303 | I6 | TP314 | O9 | | |
| R304 | I6 | TP315 | O9 | | |
| R305 | I5 | TP316 | O9 | | |
| R306 | H3 | TP317 | O8 | | |
| R307 | G3 | TP318 | O8 | | |
| R308 | G3 | TP319 | N8 | | |
| R309 | H6 | TP320 | N8 | | |
| R310 | G3 | TP321 | M9 | | |
| R311 | F3 | TP322 | M9 | | |
| R312 | K9 | TP323 | O10 | | |
| R313 | I6 | TP324 | M10 | | |
| R314 | H8 | TP325 | M10 | | |
| R315 | H4 | TP326 | M10 | | |
| R316 | H4 | TP327 | M10 | | |
| R317 | G8 | TP328 | M10 | | |
| R318 | D3 | TP329 | M10 | | |
| R319 | E3 | TP330 | M10 | | |
| R320 | E3 | TP331 | M10 | | |
| R321 | H6 | TP332 | M9 | | |
| R322 | D4 | TP333 | M9 | | |
| R323 | E5 | TP334 | M9 | | |
| R324 | E4 | TP335 | M9 | | |
| R325 | E9 | TP336 | M8 | | |
| R326 | F1 | TP337 | M8 | | |
| R327 | H3 | TP338 | M8 | | |
| R328 | F2 | TP339 | M8 | | |
| R329 | F2 | TP340 | M8 | | |
| R330 | G2 | TP341 | M8 | | |
| R331 | G2 | TP342 | N8 | | |
| R332 | F11 | TP343 | I6 | | |
| R350 | C12 | TP344 | I6 | | |
| R351 | C11 | TP345 | C10 | | |
| R352 | C11 | TP346 | K10 | | |
| R353 | C11 | TP349 | C10 | | |
| R354 | C11 | TP350 | C10 | | |
| R355 | C11 | TP351 | C10 | | |
| R356 | C11 | TP352 | C9 | | |
| R357 | C11 | TP353 | H6 | | |
| R358 | C11 | TP354 | C9 | | |
| R359 | C11 | TP355 | H4 | | |

# 6. TIMER & KEY CIRCUIT DIAGRAM

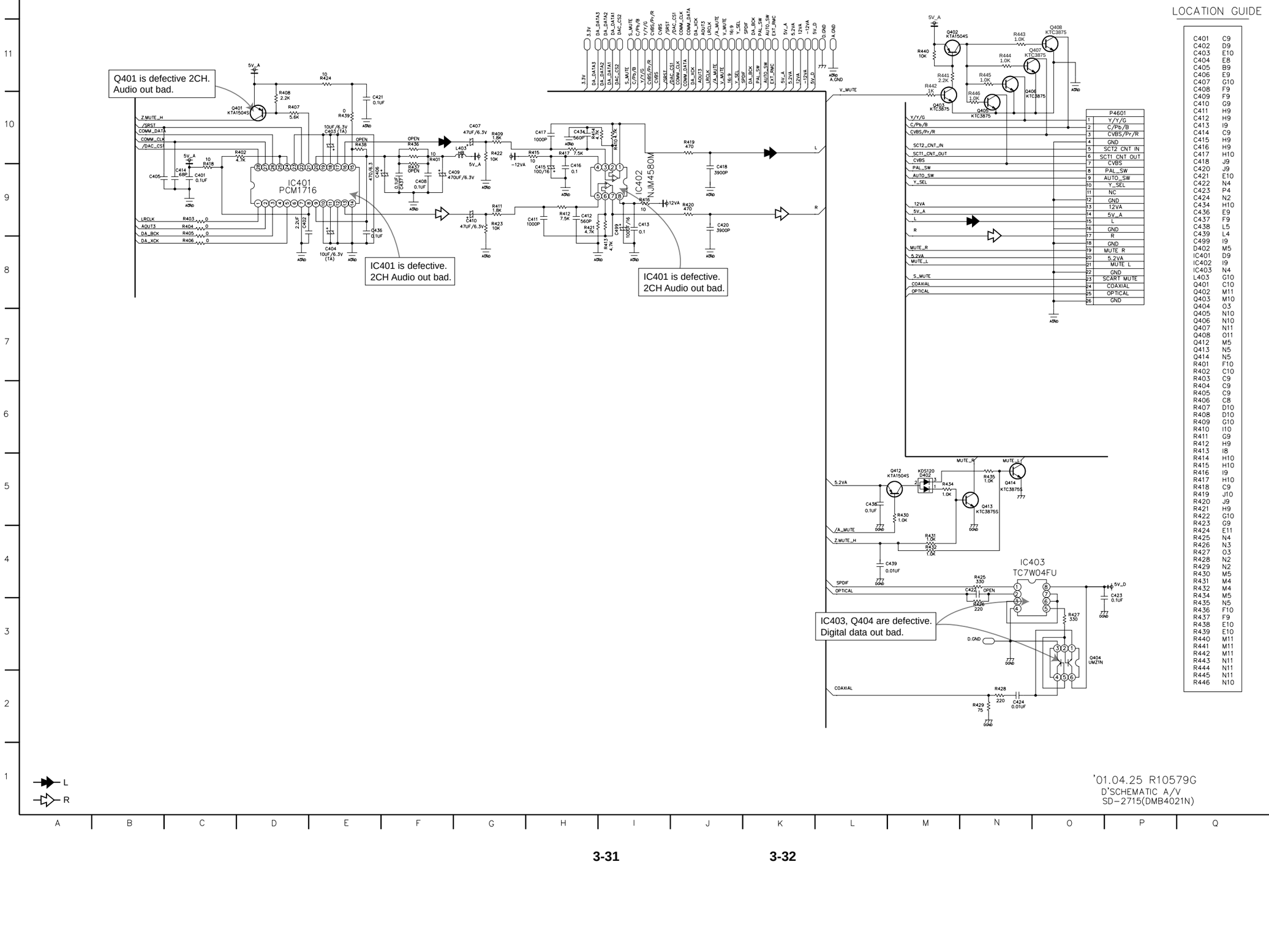



LOCATION GUIDE

| | |
|---|---|
| P9301 | B5 |
| P9901 | H3 |
| P9902 | G3 |
| PWR_CTL | J5 |
| PWR_CTL | C6 |
| R903 | E3 |
| R904 | G4 |
| R905 | F6 |
| R907 | D6 |
| R910 | C5 |
| R911 | D5 |
| R912 | D5 |
| R913 | E5 |
| R914 | E5 |
| R915 | E5 |
| R916 | F5 |
| R917 | C3 |
| R918 | C3 |
| R919 | D3 |
| R920 | B4 |
| R925 | G5 |
| R926 | F5 |
| R928 | H5 |
| R929 | H4 |
| R930 | I5 |
| R931 | I5 |
| R932 | I5 |
| R933 | J5 |
| R934 | J5 |
| R935 | J5 |
| R936 | J5 |
| R937 | J5 |
| R938 | J5 |
| R939 | J5 |
| R940 | J5 |
| R941 | I4 |
| R953 | B4 |
| R958 | B4 |
| R959 | D3 |
| R960 | D3 |
| R961 | C7 |
| R962 | C6 |
| R963 | C6 |
| R964 | C5 |
| R965 | I3 |
| R966 | I3 |
| R967 | J3 |
| R968 | J3 |
| R969 | B3 |
| R970 | B3 |
| RC901 | E6 |
| RESET | E7 |
| RESET | J5 |
| SW901 | J3 |
| SW902 | F4 |
| SW903 | E4 |
| SW904 | E4 |
| SW905 | D4 |
| SW906 | D4 |
| SW907 | D2 |
| SW908 | D4 |
| SW909 | I3 |
| SW910 | J3 |
| SW911 | I3 |
| SW912 | C2 |
| SW913 | C2 |
| SW914 | B2 |
| SW915 | B2 |
| SW916 | C2 |
| SW917 | A3 |
| SW918 | E2 |
| SW919 | D2 |
| SW9A1 | C5 |
| Vdd | C7 |
| Vdd | J5 |
| X901 | F7 |
| ZD901 | I5 |
| ZD902 | I4 |

'01.04.25 R10582C
D'SCHEMATIC TIMER & KEY
SD-2715(DMB4021N/TOSHIBA)

# 7. A/V CIRCUIT DIAGRAM

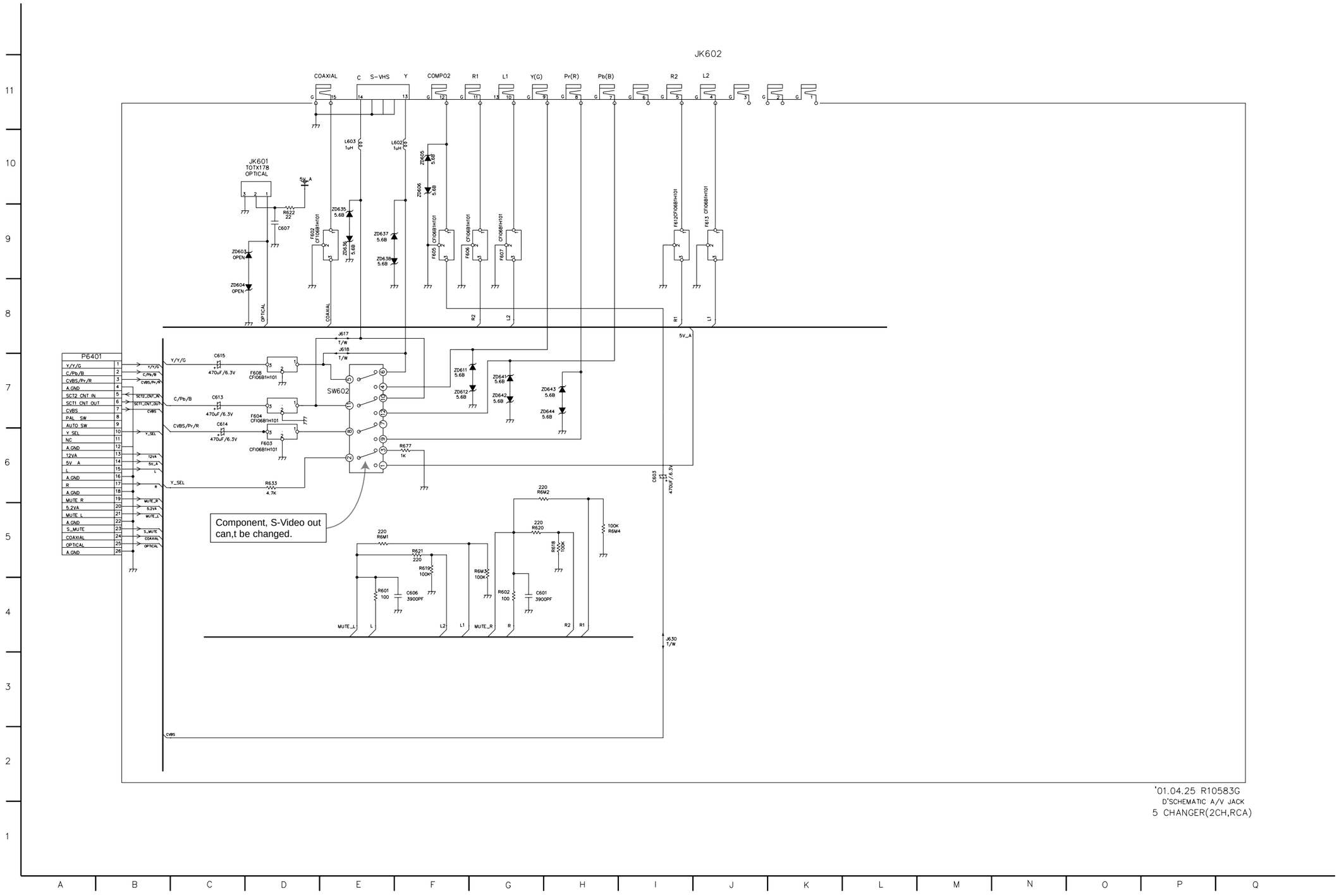



LOCATION GUIDE

| | |
|---|---|
| C401 | C9 |
| C402 | D9 |
| C403 | E10 |
| C404 | E8 |
| C405 | B9 |
| C406 | E9 |
| C407 | G10 |
| C408 | F9 |
| C409 | F9 |
| C410 | G9 |
| C411 | H9 |
| C412 | H9 |
| C413 | I9 |
| C414 | C9 |
| C415 | H9 |
| C416 | H9 |
| C417 | H10 |
| C418 | J9 |
| C420 | J9 |
| C421 | E10 |
| C422 | N4 |
| C423 | P4 |
| C424 | N2 |
| C434 | H10 |
| C436 | E9 |
| C437 | F9 |
| C438 | L5 |
| C439 | L4 |
| C499 | I9 |
| D402 | M5 |
| IC401 | D9 |
| IC402 | I9 |
| IC403 | N4 |
| L403 | G10 |
| Q401 | C10 |
| Q402 | M11 |
| Q403 | M10 |
| Q404 | O3 |
| Q405 | N10 |
| Q406 | N10 |
| Q407 | N11 |
| Q408 | O11 |
| Q412 | M5 |
| Q413 | N5 |
| Q414 | N5 |
| R401 | F10 |
| R402 | C10 |
| R403 | C9 |
| R404 | C9 |
| R405 | C9 |
| R406 | C8 |
| R407 | D10 |
| R408 | D10 |
| R409 | G10 |
| R410 | I10 |
| R411 | G9 |
| R412 | H9 |
| R413 | I8 |
| R414 | H10 |
| R415 | H10 |
| R416 | I9 |
| R417 | H10 |
| R418 | C9 |
| R419 | J10 |
| R420 | J9 |
| R421 | H9 |
| R422 | G10 |
| R423 | G9 |
| R424 | E11 |
| R425 | N4 |
| R426 | N3 |
| R427 | O3 |
| R428 | N2 |
| R429 | N2 |
| R430 | M5 |
| R431 | M4 |
| R432 | M4 |
| R434 | M5 |
| R435 | N5 |
| R436 | F10 |
| R437 | F9 |
| R438 | E10 |
| R439 | E10 |
| R440 | M11 |
| R441 | M11 |
| R442 | M11 |
| R443 | N11 |
| R444 | N11 |
| R445 | N11 |
| R446 | N10 |

'01.04.25 R10579G
D'SCHEMATIC A/V
SD-2715(DMB4021N)

# 8. A/V JACK CIRCUIT DIAGRAM




'01.04.25 R10583G
D'SCHEMATIC A/V JACK
5 CHANGER(2CH,RCA)

# • CIRCUIT VOLTAGE CHART

| MODE / PIN NO. | LEVEL(V) |
|---|---|
| **PANTERA** | |
| **IC501** | |
| 1 | 3.18 |
| 2 | 1.3 |
| 3 | 1.4 |
| 4 | 2.2 |
| 5 | 1.5 |
| 6 | 0 |
| 7 | 1.5 |
| 8 | 1.4 |
| 9 | 1.6 |
| 10 | 3.1 |
| 11 | 0.7 |
| 12 | 0.15 |
| 13 | 0.15 |
| 14 | 0 |
| 15 | 0 |
| 16 | 1.7 |
| 17 | 1.4 |
| 18 | 0 |
| 19 | 1.5 |
| 20 | 1.6 |
| 21 | 0 |
| 22 | 1.6 |
| 23 | 0 |
| 24 | 3.1 |
| 25 | 1.7 |
| 26 | 1.4 |
| 27 | 3.1 |
| 28 | 1.5 |
| 29 | 0.15 |
| 30 | |
| 31 | 0 |
| 32 | 0.7 |
| 33 | 1.5 |
| 34 | 2.2 |
| 35 | 2 |
| 36 | 3.1 |
| 37 | 2.9 |
| 38 | 2.2 |
| 39 | 2.9 |
| 40 | 0 |
| 41 | 0 |
| 42 | 0 |
| 43 | 1.6 |
| 44 | 3.1 |
| 45 | 1.6 |
| 46 | 1.5 |
| 47 | 0 |
| 48 | 1.4 |
| 49 | 0 |
| 50 | 1.5 |
| 51 | 1.7 |
| 52 | 1.2 |
| 53 | 3.1 |

| MODE / PIN NO. | LEVEL(V) |
|---|---|
| 54 | 1.6 |
| 55 | 1.4 |
| 56 | 1.5 |
| 57 | 0 |
| 58 | 1.6 |
| 59 | 1.4 |
| 60 | 1.5 |
| 61 | 1.4 |
| 62 | 3.1 |
| 63 | 1 |
| 64 | 1.5 |
| 65 | 0.005 |
| 66 | 0.5 |
| 67 | 0.003 |
| 68 | 1.58 |
| 69 | 0 |
| 70 | 3.1 |
| 71 | 1.2 |
| 72 | 1.2 |
| 73 | 1.2 |
| 74 | 1.2 |
| 75 | 3.1 |
| 76 | 1.65 |
| 77 | 2.2 |
| 78 | 1.5 |
| 79 | 1.5 |
| 80 | 3.1 |
| 81 | 3.1 |
| 82 | 0.001 |
| 83 | 3.1 |
| 84 | 3.7 |
| 85 | 0 |
| 86 | |
| 87 | 3.1 |
| 88 | 3.1 |
| 89 | 2.1 |
| 90 | 0.004 |
| 91 | 3.1 |
| 92 | 0 |
| 93 | |
| 94 | |
| 95 | |
| 96 | |
| 97 | 0 |
| 98 | |
| 99 | |
| 100 | 0 |
| 101 | 2.1 |
| 102 | 3.1 |
| 103 | 0 |
| 104 | 0 |
| 105 | 0 |
| 106 | 0 |
| 107 | 2.1 |
| 108 | 2.1 |

| MODE / PIN NO. | LEVEL(V) |
|---|---|
| 109 | 0 |
| 110 | 0.8 |
| 111 | 0.9 |
| 112 | 1.3 |
| 113 | 3.1 |
| 114 | 0.78 |
| 115 | 0 |
| 116 | 1.26 |
| 117 | 2.38 |
| 118 | 0.08 |
| 119 | 1.2 |
| 120 | 2 |
| 121 | 0 |
| 122 | 3.1 |
| 123 | 3.1 |
| 124 | 3.1 |
| 125 | 3.1 |
| 126 | |
| 127 | |
| 128 | |
| 129 | |
| 130 | |
| 131 | |
| 132 | 0 |
| 133 | |
| 134 | |
| 135 | 2.2 |
| 136 | |
| 137 | 3.1 |
| 138 | 3.1 |
| 139 | 3.1 |
| 140 | 3.1 |
| 141 | 3.1 |
| 142 | 3.1 |
| 143 | 3.1 |
| 144 | 3.1 |
| 145 | 3.1 |
| 146 | 3.1 |
| 147 | 0 |
| 148 | 3.1 |
| 149 | 3.1 |
| 150 | 3.1 |
| 151 | 3.1 |
| 152 | 3.1 |
| 153 | 3.1 |
| 154 | 3.1 |
| 155 | 3.1 |
| 156 | 3.1 |
| 157 | 3.1 |
| 158 | 3.1 |
| 159 | 2.2 |
| 160 | 1.5 |
| 161 | 3.1 |
| 162 | |
| 163 | 0 |

| MODE / PIN NO. | LEVEL(V) |
|---|---|
| 164 | 3.1 |
| 165 | 3.1 |
| 166 | 3.1 |
| 167 | 3.1 |
| 168 | 3.1 |
| 169 | 3.1 |
| 170 | 3.1 |
| 171 | 0 |
| 172 | 3.1 |
| 173 | 3.1 |
| 174 | 3.1 |
| 175 | 1.5 |
| 176 | 3.1 |
| 177 | 0 |
| 178 | 3.1 |
| 179 | 3.1 |
| 180 | 3.1 |
| 181 | 3.1 |
| 182 | 3.18 |
| 183 | 0.086 |
| 184 | 3 |
| 185 | 2.4 |
| 186 | 2.3 |
| 187 | 0 |
| 188 | 0 |
| 189 | 3.1 |
| 190 | 0 |
| 191 | 0.017 |
| 192 | 2.2 |
| 193 | 3.1 |
| 194 | 3.1 |
| 195 | 0 |
| 196 | 3.18 |
| 197 | 1.3 |
| 198 | 3.1 |
| 199 | 3.1 |
| 200 | 3.1 |
| 201 | 0 |
| 202 | 2.3 |
| 203 | 3.1 |
| 204 | 0.001 |
| 205 | 3.1 |
| 206 | 3.1 |
| 207 | 3.1 |
| 208 | 1.6 |
| 209 | 3.1 |
| 210 | 3.18 |
| 211 | 0.018 |
| 212 | 2.2 |
| 213 | 3.19 |
| 214 | 2.69 |
| 215 | 1.5 |
| 216 | 2.9 |
| 217 | 2.59 |
| 218 | 0 |

| MODE / PIN NO. | LEVEL(V) |
|---|---|
| 219 | 2.29 |
| 220 | 2.08 |
| 221 | 2.29 |
| 222 | 2.29 |
| 223 | 2.49 |
| 224 | 3.1 |
| 225 | 2.39 |
| 226 | 2.45 |
| 227 | 1.5 |
| 228 | 0 |
| 229 | 1.52 |
| 230 | 0 |
| 231 | 1.61 |
| 232 | 1.6 |
| 233 | 3.1 |
| 234 | 1.6 |
| 235 | 1.6 |
| 236 | 1.5 |
| 237 | 0 |
| 238 | 1.6 |
| 239 | 1.4 |
| 240 | 1.5 |



| MODE / PIN NO. | LEVEL(V) |
|---|---|
| **MEMORY** | |
| **IC301** | |
| 1 | 4.3 |
| 2 | |
| 3 | 3.1 |
| 4 | 0 |
| 5 | 3.2 |
| 6 | 2 |
| 7 | |
| 8 | 3.1 |
| 9 | 0.01 |
| 10 | 3.1 |
| 11 | 3.2 |
| 12 | 3.2 |
| 13 | 3.2 |
| 14 | 3.2 |
| 15 | 0 |
| 16 | 3.1 |
| 17 | 3.1 |
| 18 | 3.1 |
| 19 | |
| 20 | 0 |
| 21 | 0 |
| 22 | 0 |
| 23 | 3 |
| 24 | |
| 25 | 0.625 |
| 26 | 3.2 |
| 27 | 0.705 |
| 28 | 3.2 |
| 29 | 3.1 |
| 30 | |
| 31 | 0 |
| 32 | |
| 33 | |
| 34 | |
| 35 | 3.1 |
| 36 | 3.1 |
| 37 | 2.39 |
| 38 | 3.2 |
| 39 | 1.49 |
| 40 | 1.5 |
| 41 | 3.09 |
| 42 | 1.69 |
| 43 | 0 |
| 44 | 3.1 |
| 45 | |
| 46 | 3.1 |
| 47 | |
| 48 | 2.5 |
| 49 | 3.1 |
| 50 | 3.1 |
| 51 | 3.2 |
| 52 | 3.1 |
| 53 | 3.1 |



| MODE / PIN NO. | LEVEL(V) |
|---|---|
| 54 | 3.1 |
| 55 | 3.1 |
| 56 | 3.1 |
| 57 | 3.1 |
| 58 | 3.1 |
| 59 | 3.1 |
| 60 | 3.1 |
| 61 | 0.5 |
| 62 | 0 |
| 63 | 3.1 |
| 64 | 3.1 |
| 65 | 3.1 |
| 66 | 3.1 |
| 67 | 3.1 |
| 68 | 1.6 |
| 69 | 0 |
| 70 | 0 |
| 71 | 3.1 |
| 72 | 0 |
| 73 | |
| 74 | 3.1 |
| 75 | 0 |
| 76 | 3.2 |
| 77 | 0 |
| 78 | 3.1 |
| 79 | 0.3 |
| 80 | |
| 81 | 0 |
| 82 | 0 |
| 83 | 2.5 |
| 84 | 0 |
| 85 | 3.19 |
| 86 | 3.19 |
| 87 | 4.4 |
| 88 | 3.19 |
| 89 | 4.4 |
| 90 | 0 |
| 91 | 4.4 |
| 92 | 0 |
| 93 | 0 |
| 94 | 0 |
| 95 | 0 |
| 96 | 0 |
| 97 | 3.17 |
| 98 | 3.17 |
| 99 | 3.1 |
| 100 | 0 |

| MODE / PIN NO. | EE | PLAY |
|---|---|---|
| **DSP** | | |
| **IC201 SP3301** | | |
| 1 | 2.00 | 1.30 |
| 2 | 2.00 | 1.30 |
| 3 | 2.00 | 1.30 |
| 4 | 2.00 | 1.30 |
| 5 | 2.00 | 1.30 |
| 6 | 2.00 | 1.30 |
| 7 | 2.00 | 1.30 |
| 8 | 2.00 | 1.30 |
| 9 | 2.00 | 1.30 |
| 10 | 2.00 | 1.30 |
| 11 | 2.00 | 1.30 |
| 12 | 2.00 | 1.30 |
| 13 | 2.00 | 1.30 |
| 14 | 2.00 | 1.30 |
| 15 | 2.00 | 1.30 |
| 16 | 2.00 | 1.30 |
| 17 | 0.00 | 0.00 |
| 18 | 0.00 | 1.50 |
| 19 | 0.00 | 1.50 |
| 20 | 0.00 | 1.50 |
| 21 | 0.00 | 1.50 |
| 22 | 3.10 | 3.00 |
| 23 | 0.00 | 1.50 |
| 24 | 0.00 | 1.50 |
| 25 | 0.00 | 1.50 |
| 26 | 0.00 | 1.50 |
| 27 | 0.00 | 1.50 |
| 28 | 2.10 | 1.50 |
| 29 | 0.00 | 0.00 |
| 30 | 2.10 | 2.00 |
| 31 | 3.10 | 3.00 |
| 32 | 3.10 | 1.50 |
| 33 | 3.10 | 2.50 |
| 34 | 3.10 | 2.50 |
| 35 | 2.10 | 1.30 |
| 36 | 1.10 | 1.80 |
| 37 | 0.00 | 0.00 |
| 38 | 0.00 | 0.00 |
| 39 | 0.00 | 0.00 |
| 40 | 3.10 | 3.00 |
| 41 | 0.00 | 0.00 |
| 42 | 3.10 | 3.00 |
| 43 | 0.00 | 0.00 |
| 44 | 0.00 | 0.00 |
| 45 | 3.10 | 3.00 |
| 46 | 0.00 | 0.00 |
| 47 | 0.00 | 0.00 |
| 48 | 0.00 | 0.00 |
| 49 | 0.00 | 3.00 |
| 50 | 0.00 | 0.00 |
| 51 | 0.00 | 0.00 |
| 52 | 3.10 | 1.80 |
| 53 | 0.00 | 0.00 |

| MODE / PIN NO. | EE | PLAY |
|---|---|---|
| 54 | 3.10 | 3.00 |
| 55 | 3.10 | 3.00 |
| 56 | 0.00 | 0.00 |
| 57 | 0.00 | 3.13 |
| 58 | 5.00 | 4.98 |
| 59 | 0.00 | 0.00 |
| 60 | 0.00 | 0.00 |
| 61 | 5.00 | 4.98 |
| 62 | 0.00 | 0.00 |
| 63 | 2.10 | 2.10 |
| 64 | 0.00 | 0.00 |
| 65 | 3.10 | 3.00 |
| 66 | 0.00 | 0.00 |
| 67 | 3.10 | 3.12 |
| 68 | 0.00 | 0.00 |
| 69 | 0.00 | 0.20 |
| 70 | 0.00 | 0.00 |
| 71 | 3.10 | 3.10 |
| 72 | 0.00 | 0.20 |
| 73 | 0.00 | 0.00 |
| 74 | 3.10 | 3.10 |
| 75 | 0.00 | 0.00 |
| 76 | 0.00 | 0.00 |
| 77 | 0.00 | 0.00 |
| 78 | 0.00 | 2.30 |
| 79 | 3.10 | 3.10 |
| 80 | 5.00 | 5.00 |
| 81 | 0.00 | 0.00 |
| 82 | 5.00 | 5.00 |
| 83 | 2.10 | 2.00 |
| 84 | 2.10 | 2.10 |
| 85 | 3.10 | 3.10 |
| 86 | 1.40 | 1.40 |
| 87 | 0.00 | 0.00 |
| 88 | 2.10 | 2.00 |
| 89 | 2.10 | 2.00 |
| 90 | 0.00 | 0.00 |
| 91 | 1.50 | 1.55 |
| 92 | 3.10 | 3.12 |
| 93 | 1.60 | 1.55 |
| 94 | 1.10 | 1.11 |
| 95 | 2.00 | 2.00 |
| 96 | 1.55 | 1.55 |
| 97 | 0.00 | 0.00 |
| 98 | 1.55 | 1.55 |
| 99 | 1.56 | 2.15 |
| 100 | 3.10 | 3.10 |
| 101 | 1.55 | 1.58 |
| 102 | 1.55 | 1.55 |
| 103 | 1.62 | 1.64 |
| 104 | 1.55 | 1.55 |
| 105 | 1.50 | 1.50 |
| 106 | 0.00 | 0.00 |
| 107 | 0.00 | 0.00 |
| 108 | 0.00 | 0.00 |

| MODE / PIN NO. | EE | PLAY |
|---|---|---|
| 109 | 0.00 | 0.00 |
| 110 | 0.00 | 0.00 |
| 111 | 0.00 | 0.00 |
| 112 | 0.00 | 0.00 |
| 113 | 3.40 | 4.70 |
| 114 | 5.00 | 5.00 |
| 115 | 1.50 | 1.50 |
| 116 | 1.50 | 1.53 |
| 117 | 3.10 | 3.10 |
| 118 | 0.00 | 0.00 |
| 119 | 0.00 | 0.00 |
| 120 | 3.50 | 4.20 |
| 121 | 3.25 | 4.20 |
| 122 | 3.45 | 4.30 |
| 123 | 3.50 | 4.30 |
| 124 | 3.50 | 4.30 |
| 125 | 3.50 | 4.50 |
| 126 | 0.00 | 0.00 |
| 127 | 3.60 | 2.60 |
| 128 | 0.00 | 0.00 |
| 129 | 3.60 | 2.60 |
| 130 | 0.00 | 0.20 |
| 131 | 0.00 | 0.00 |
| 132 | 0.00 | 3.10 |
| 133 | 3.10 | 3.10 |
| 134 | 0.00 | 0.00 |
| 135 | 0.00 | 0.00 |
| 136 | 3.10 | 2.20 |
| 137 | 0.00 | 0.00 |
| 138 | 0.00 | 0.00 |
| 139 | 3.10 | 3.10 |
| 140 | 3.00 | 3.10 |
| 141 | 0.00 | 0.00 |
| 142 | 3.00 | 3.00 |
| 143 | 3.10 | 3.10 |
| 144 | 3.10 | 3.10 |
| 145 | 3.10 | 0.90 |
| 146 | 3.50 | 4.50 |
| 147 | 0.00 | 0.00 |
| 148 | 0.00 | 0.00 |
| 149 | 0.00 | 0.00 |
| 150 | 0.00 | 0.00 |
| 151 | 0.00 | 0.00 |
| 152 | 0.00 | 0.00 |
| 153 | 0.00 | 0.00 |
| 154 | 0.00 | 0.00 |
| 155 | 1.55 | 1.55 |
| 156 | 3.10 | 3.10 |
| 157 | 1.50 | 1.50 |
| 158 | 0.00 | 0.00 |
| 159 | 0.00 | 0.00 |
| 160 | 2.60 | 2.60 |
| 161 | 3.10 | 3.10 |
| 162 | 2.00 | 2.00 |
| 163 | 2.00 | 2.00 |

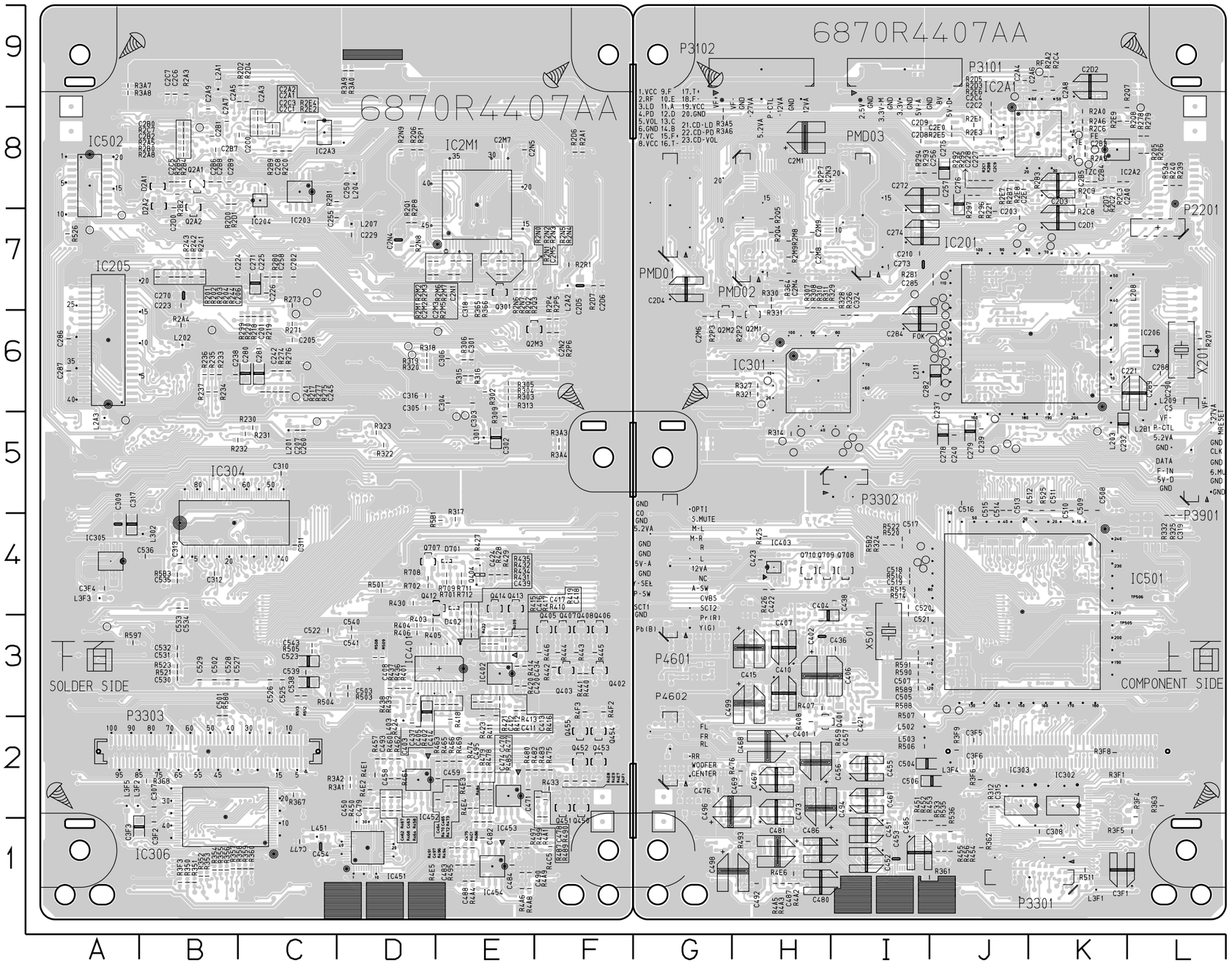
| MODE / PIN NO. | EE | PLAY |
|---|---|---|
| 164 | 1.40 | 1.40 |
| 165 | 3.20 | 0.00 |
| 166 | 1.60 | 1.75 |
| 167 | 0.00 | 0.00 |
| 168 | 0.00 | 3.10 |
| 169 | 0.00 | 3.10 |
| 170 | 5.00 | 2.50 |
| 171 | 0.00 | 2.50 |
| 172 | 3.10 | 0.00 |
| 173 | 3.10 | 3.10 |
| 174 | 3.10 | 3.10 |
| 175 | 3.10 | 3.10 |
| 176 | 2.53 | 1.30 |
| 177 | 4.24 | 4.97 |
| 178 | 5.00 | 5.00 |
| 179 | 2.70 | 0.20 |
| 180 | 3.26 | 2.30 |
| 181 | 3.10 | 2.50 |
| 182 | 2.40 | 2.50 |
| 183 | 3.66 | 2.80 |
| 184 | 2.40 | 2.50 |
| 185 | 0.00 | 0.00 |
| 186 | 2.26 | 2.00 |
| 187 | 3.10 | 3.10 |
| 188 | 2.20 | 2.40 |
| 189 | 1.75 | 1.90 |
| 190 | 2.20 | 1.80 |
| 191 | 1.80 | 1.80 |
| 192 | 2.20 | 2.20 |
| 193 | 1.25 | 1.30 |
| 194 | 1.00 | 1.10 |
| 195 | 5.00 | 5.00 |
| 196 | 0.00 | 2.25 |
| 197 | 0.00 | 1.60 |
| 198 | 0.00 | 1.50 |
| 199 | 0.00 | 1.50 |
| 200 | 0.00 | 1.50 |
| 201 | 0.00 | 1.50 |
| 202 | 0.00 | 1.50 |
| 203 | 0.00 | 1.50 |
| 204 | 0.00 | 1.50 |
| 205 | 3.10 | 2.60 |
| 206 | 1.50 | 1.50 |
| 207 | 3.10 | 3.10 |
| 208 | 3.10 | 3.10 |
| **S E R V O** | | |
| **IC2A1 33P3721** | | |
| 1 | 3.44 | 3.38 |
| 2 | 3.12 | 3.40 |
| 3 | 2.50 | 2.50 |
| 4 | 2.51 | 2.53 |
| 5 | 3.50 | 3.44 |
| 6 | 3.46 | 3.44 |
| 7 | 3.47 | 3.45 |
| 8 | 3.47 | 3.44 |

| MODE / PIN NO. | EE | PLAY |
|---|---|---|
| 9 | 3.48 | 3.44 |
| 10 | 3.43 | 3.41 |
| 11 | 2.52 | 2.70 |
| 12 | 2.52 | 2.70 |
| 13 | 2.52 | 2.60 |
| 14 | 2.52 | 2.60 |
| 15 | 2.56 | 2.70 |
| 16 | 2.48 | 2.50 |
| 17 | 2.98 | 3.30 |
| 18 | 0.00 | 0.00 |
| 19 | 4.50 | 4.58 |
| 20 | 0.00 | 0.00 |
| 21 | 0.00 | 0.20 |
| 22 | 4.96 | 3.85 |
| 23 | 0.00 | 0.00 |
| 24 | 4.95 | 4.92 |
| 25 | 5.00 | 0.00 |
| 26 | 2.52 | 2.50 |
| 27 | 1.55 | 1.55 |
| 28 | 4.97 | 4.93 |
| 29 | 0.00 | 0.40 |
| 30 | 2.55 | 2.63 |
| 31 | 2.51 | 2.56 |
| 32 | 4.90 | 4.65 |
| 33 | 0.00 | 0.20 |
| 34 | 0.00 | 2.60 |
| 35 | 0.00 | 2.50 |
| 36 | 1.56 | 2.15 |
| 37 | 3.58 | 0.00 |
| 38 | 2.62 | 3.20 |
| 39 | 0.00 | 2.60 |
| 40 | 2.50 | 2.60 |
| 41 | 1.55 | 1.60 |
| 42 | 1.46 | 1.65 |
| 43 | 1.58 | 1.64 |
| 44 | 2.52 | 2.50 |
| 45 | 4.92 | 4.97 |
| 46 | 4.99 | 5.00 |
| 47 | 0.00 | 0.00 |
| 48 | 0.00 | 0.00 |
| 49 | 3.59 | 0.00 |
| 50 | 0.00 | 0.00 |
| 51 | 2.35 | 0.00 |
| 52 | 2.37 | 2.30 |
| 53 | 3.51 | 3.47 |
| 54 | 3.51 | 3.46 |
| 55 | 0.61 | 0.00 |
| 56 | 1.67 | 2.42 |
| 57 | 2.95 | 2.88 |
| 58 | 4.98 | 4.93 |
| 59 | 3.48 | 3.40 |
| 60 | 3.48 | 3.40 |
| 61 | 3.71 | 3.70 |
| 62 | 3.75 | 3.70 |
| 63 | 0.27 | 0.36 |

| MODE / PIN NO. | EE | PLAY |
|---|---|---|
| 64 | 2.40 | 0.90 |

# PRINTED CIRCUIT DIAGRAMS

## 1. MAIN P.C.BOARD




## LOCATION GUIDE

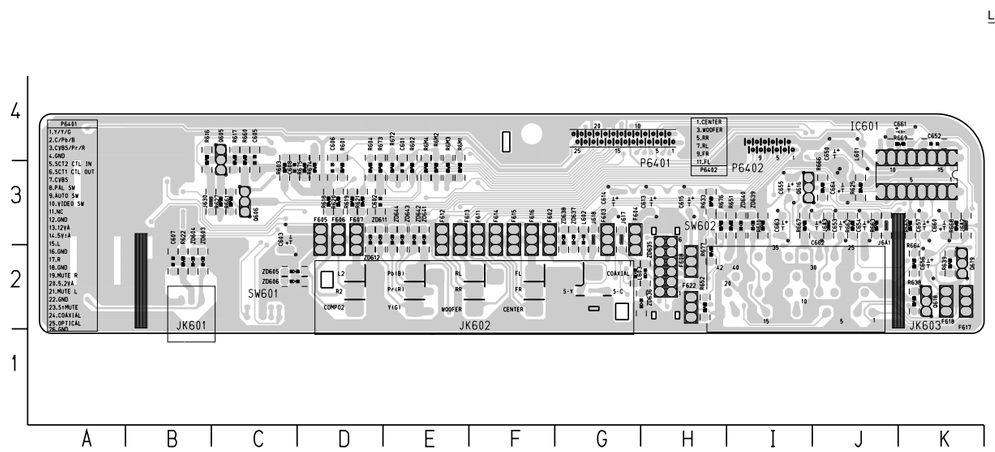
(BOTTOM SIDE)

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C201 | C6 | C301 | E6 | C497 | E1 | L451 | C1 | R2A8 | B8 | R320 | D6 | R433 | F2 | R4C1 | E1 |
| C202 | C7 | C302 | E5 | C501 | B3 | P3303 | B2 | R2B0 | B8 | R322 | D5 | R434 | E3 | R4C5 | F1 |
| C205 | C6 | C303 | E6 | C502 | B3 | Q2A1 | B8 | R2B1 | D8 | R323 | D5 | R435 | E4 | R4E1 | D2 |
| C206 | B7 | C304 | E6 | C503 | D3 | Q2A2 | B8 | R2B2 | B8 | R350 | B1 | R436 | D3 | R4E2 | D2 |
| C207 | C5 | C305 | D6 | C522 | C3 | Q2M3 | F6 | R2B4 | B8 | R351 | B1 | R437 | D3 | R4E3 | E2 |
| C223 | B7 | C306 | E6 | C523 | C3 | Q301 | E7 | R2B5 | B8 | R352 | B1 | R438 | D3 | R4E4 | E2 |
| C224 | C7 | C307 | B2 | C525 | C3 | Q402 | F3 | R2B9 | C8 | R353 | B1 | R439 | D3 | R4E5 | E1 |
| C225 | C7 | C309 | A4 | C526 | C3 | Q403 | F3 | R2C0 | C8 | R354 | B1 | R440 | F3 | R4E7 | F2 |
| C226 | C7 | C310 | C5 | C527 | B3 | Q404 | E4 | R2C7 | B8 | R355 | B1 | R441 | F3 | R4E8 | F2 |
| C229 | D7 | C311 | C4 | C528 | B3 | Q405 | F3 | R2D0 | B8 | R356 | B1 | R442 | F3 | R4E9 | F2 |
| C238 | B6 | C312 | B4 | C529 | B3 | Q406 | F3 | R2D1 | B8 | R357 | B1 | R443 | F3 | R4F1 | F2 |
| C241 | C6 | C313 | B4 | C530 | B3 | Q407 | F3 | R2D2 | C9 | R358 | C1 | R444 | F3 | R4F2 | F3 |
| C242 | C6 | C316 | D6 | C531 | B3 | Q408 | F3 | R2D4 | C9 | R359 | C1 | R445 | F3 | R4F3 | F3 |
| C245 | C6 | C317 | A4 | C532 | B3 | Q412 | E4 | R2D6 | F8 | R360 | C1 | R446 | F3 | R501 | D4 |
| C250 | D8 | C318 | E7 | C533 | B4 | Q413 | E4 | R2D7 | F7 | R365 | E7 | R450 | D2 | R503 | D3 |
| C255 | D7 | C3F2 | B1 | C534 | B4 | Q414 | E4 | R2E2 | C8 | R366 | E7 | R457 | D2 | R504 | C3 |
| C258 | C7 | C3F3 | B1 | C535 | B4 | Q450 | F2 | R2E4 | C8 | R367 | C2 | R458 | D2 | R505 | C3 |
| C260 | C5 | C3F4 | A4 | C536 | B4 | Q451 | F2 | R2M1 | D7 | R368 | B2 | R460 | D2 | R508 | D3 |
| C270 | B7 | C403 | D3 | C538 | C3 | Q452 | F2 | R2M2 | D7 | R3A0 | D8 | R461 | D2 | R509 | D3 |
| C271 | C7 | C405 | E3 | C539 | C3 | Q453 | F2 | R2M3 | E7 | R3A1 | D2 | R462 | D2 | R512 | C3 |
| C280 | C6 | C408 | D3 | C540 | D3 | Q454 | F2 | R2M5 | E7 | R3A2 | D2 | R463 | E2 | R513 | C3 |
| C281 | C6 | C411 | E3 | C541 | D3 | Q455 | F2 | R2M6 | E7 | R3A3 | F5 | R464 | D2 | R521 | B3 |
| C286 | A6 | C412 | E3 | C543 | C3 | Q707 | D4 | R2M7 | E7 | R3A4 | F5 | R465 | E2 | R523 | B3 |
| C287 | A6 | C413 | E3 | D2A1 | B8 | R201 | B7 | R2N0 | E7 | R3A7 | A9 | R466 | E2 | R526 | A7 |
| C2A1 | C8 | C414 | E3 | D2A2 | B8 | R202 | B7 | R2N1 | E7 | R3A8 | A9 | R467 | D2 | R580 | B3 |
| C2A2 | C8 | C416 | E3 | D402 | E4 | R203 | B7 | R2N2 | E7 | R3A9 | D9 | R468 | D2 | R597 | A3 |
| C2A3 | C8 | C417 | E3 | D701 | E4 | R204 | B7 | R2N3 | E7 | R3F3 | B11 | R469 | E2 | R5B1 | E4 |
| C2A5 | C9 | C418 | E3 | IC203 | C8 | R217 | C6 | R2N4 | E7 | R401 | D3 | R470 | E2 | R5B3 | B4 |
| C2A7 | B8 | C420 | E3 | IC204 | C8 | R218 | C6 | R2N5 | E7 | R402 | E3 | R472 | E2 | R701 | E4 |
| C2A9 | B8 | C424 | E4 | IC205 | A6 | R219 | C6 | R2N6 | E7 | R403 | D3 | R473 | E2 | R702 | D4 |
| C2B0 | B8 | C434 | E3 | IC2A3 | C8 | R220 | C6 | R2N7 | E7 | R404 | D3 | R474 | E2 | R708 | D4 |
| C2B1 | B8 | C437 | E3 | IC2M1 | E8 | R230 | C5 | R2N8 | D7 | R405 | D3 | R475 | F2 | R709 | E4 |
| C2B2 | B8 | C439 | E3 | IC304 | B4 | R231 | C5 | R2N9 | D8 | R406 | D3 | R477 | E2 | R711 | E4 |
| C2B6 | B8 | C450 | D2 | IC305 | A4 | R232 | C5 | R2P1 | D8 | R409 | E3 | R478 | E2 | R712 | E4 |
| C2B7 | B8 | C454 | C1 | IC306 | B2 | R233 | B6 | R2P4 | F6 | R410 | E3 | R479 | E2 | TP206 | A3 |
| C2B8 | B8 | C458 | D2 | IC401 | E3 | R234 | B6 | R2P5 | F6 | R411 | E3 | R480 | E2 | TP207 | C6 |
| C2B9 | B8 | C459 | E2 | IC402 | E3 | R235 | B6 | R2P6 | F6 | R412 | E3 | R482 | F2 | TP208 | C5 |
| C2C0 | C8 | C462 | D2 | IC451 | D1 | R236 | B6 | R2P8 | D7 | R413 | E3 | R483 | F2 | TP212 | C6 |
| C2C1 | C8 | C463 | D2 | IC452 | D2 | R237 | B6 | R2Q1 | D7 | R414 | E3 | R484 | E2 | TP218 | B6 |
| C2C3 | C8 | C464 | E2 | IC453 | E2 | R241 | B7 | R2Q2 | E7 | R415 | E3 | R485 | E2 | TP221 | E6 |
| C2C5 | B8 | C465 | E2 | IC454 | E1 | R242 | B7 | R2Q3 | F7 | R416 | E3 | R486 | E1 | TP231 | C6 |
| C2C6 | B8 | C470 | E2 | IC502 | A6 | R243 | B7 | R2Q6 | D8 | R417 | E3 | R487 | F2 | TP235 | A5 |
| C2C7 | B8 | C471 | E2 | L201 | C5 | R244 | B7 | R2R1 | F7 | R418 | E2 | R489 | F2 | TP242 | C7 |
| C2C8 | C8 | C474 | E2 | L202 | B6 | R271 | C6 | R302 | E6 | R419 | E3 | R490 | F2 | TP244 | C7 |
| C2D0 | B8 | C475 | E1 | L204 | D8 | R273 | C7 | R303 | E6 | R420 | E3 | R491 | E1 | TP241 | B8 |
| C2D5 | F7 | C477 | C1 | L207 | D7 | R274 | C6 | R304 | E6 | R421 | E3 | R494 | E1 | TP359 | E5 |
| C2D6 | F7 | C478 | F2 | L2A1 | B9 | R275 | C6 | R305 | E6 | R422 | E3 | R495 | E1 | TP360 | D6 |
| C2M2 | E7 | C479 | D2 | L2A2 | F7 | R276 | C6 | R306 | E6 | R423 | E3 | R496 | E1 | TP361 | D6 |
| C2M3 | E7 | C482 | E1 | L2A3 | A5 | R277 | C6 | R309 | E5 | R424 | D2 | R497 | E1 | TP362 | E5 |
| C2M5 | E7 | C483 | E1 | L301 | E5 | R280 | C7 | R313 | E6 | R427 | E4 | R499 | E1 | TP515 | A7 |
| C2M7 | E8 | C484 | E1 | L302 | B4 | R299 | C6 | R315 | E6 | R428 | E4 | R4A1 | E1 | TP516 | A7 |
| C2N1 | E7 | C488 | E1 | L3F2 | A2 | R2A1 | F8 | R316 | E6 | R429 | E4 | R4A4 | E1 | | |
| C2N2 | F6 | C490 | E1 | L3F3 | A2 | R2A3 | B8 | R317 | E6 | R430 | D4 | R4A6 | E1 | | |
| C2N4 | D7 | C493 | D2 | L3F5 | A2 | R2A4 | B8 | R318 | D6 | R431 | E3 | R4A8 | E1 | | |
| C2N5 | E8 | C495 | E2 | L403 | D2 | R2A5 | B8 | R319 | D6 | R432 | E4 | R4A9 | E1 | | |

(TOP SIDE)

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C203 | J7 | C410 | H3 | L3F1 | K1 | R2P2 | H6 | R533 | J1 | TP319 | K2 |
| C210 | I7 | C415 | H3 | L3F4 | J2 | R2P3 | G6 | R534 | L8 | TP320 | K2 |
| C221 | L6 | C421 | I2 | L502 | I2 | R2P7 | H8 | R535 | J1 | TP321 | J1 |
| C227 | J8 | C422 | H4 | L503 | I2 | R2Q4 | H7 | R536 | J1 | TP322 | J1 |
| C228 | J8 | C423 | H4 | P2201 | L7 | R205 | H7 | R588 | I3 | TP323 | J1 |
| C232 | K5 | C436 | I3 | P3101 | I9 | R207 | L8 | R589 | I3 | TP324 | J1 |
| C237 | J6 | C438 | I4 | P3102 | H9 | R208 | L8 | R590 | I3 | TP325 | J1 |
| C239 | J5 | C451 | I1 | P3301 | K1 | R307 | H7 | R591 | I3 | TP326 | J1 |
| C240 | J5 | C452 | I1 | P3302 | I5 | R308 | H7 | R5B2 | I4 | TP327 | K1 |
| C256 | J8 | C453 | I1 | P3901 | L5 | R310 | H7 | TP201 | K5 | TP328 | K1 |
| C257 | J8 | C455 | I2 | P4601 | G4 | R311 | H7 | TP202 | J5 | TP329 | K1 |
| C272 | I8 | C456 | H2 | P4602 | G2 | R312 | J2 | TP203 | J5 | TP330 | K1 |
| C273 | I7 | C457 | I2 | PMD01 | G8 | R314 | H5 | TP204 | J5 | TP331 | K1 |
| C274 | I7 | C461 | I2 | PMD02 | H7 | R321 | H6 | TP205 | J5 | TP332 | J1 |
| C275 | J8 | C467 | H2 | PMD03 | I7 | R324 | I4 | TP209 | J6 | TP333 | J1 |
| C276 | J8 | C468 | H2 | Q2M1 | H6 | R325 | L4 | TP210 | J6 | TP334 | J1 |
| C278 | J5 | C469 | H2 | Q2M2 | G6 | R326 | I6 | TP211 | J6 | TP335 | J2 |
| C279 | J5 | C473 | H2 | Q401 | H2 | R327 | H6 | TP213 | J6 | TP336 | J2 |
| C282 | J6 | C476 | G2 | Q708 | I4 | R328 | I6 | TP214 | J6 | TP337 | K1 |
| C284 | I6 | C480 | H1 | Q709 | H4 | R329 | I7 | TP215 | J6 | TP338 | K1 |
| C285 | J7 | C481 | H1 | Q710 | H4 | R330 | H7 | TP216 | J6 | TP339 | K2 |
| C288 | L6 | C485 | I1 | R205 | L8 | R331 | H7 | TP219 | H6 | TP340 | K2 |
| C289 | L6 | C486 | H1 | R206 | L8 | R332 | L4 | TP220 | J6 | TP341 | K2 |
| C290 | L6 | C487 | H1 | R207 | L6 | R361 | J1 | TP222 | K7 | TP342 | K2 |
| C2A0 | L8 | C492 | H1 | R221 | J7 | R362 | J1 | TP223 | K8 | TP343 | K2 |
| C2A4 | J9 | C494 | H2 | R239 | L8 | R363 | L2 | TP224 | K8 | TP344 | H5 |
| C2A6 | K9 | C496 | G2 | R240 | L8 | R364 | H7 | TP225 | J6 | TP345 | L2 |
| C2A8 | K9 | C498 | H1 | R278 | L8 | R3A5 | G8 | TP226 | J6 | TP346 | J2 |
| C2B3 | K8 | C499 | H3 | R279 | L8 | R3A6 | G8 | TP228 | J6 | TP349 | I5 |
| C2B4 | K8 | C504 | I2 | R281 | J7 | R3F1 | K2 | TP229 | J7 | TP350 | I5 |
| C2B5 | K8 | C505 | I3 | R292 | J8 | R3F4 | L2 | TP230 | J7 | TP351 | I5 |
| C2C2 | J8 | C506 | J2 | R293 | I8 | R3F5 | L1 | TP232 | J7 | TP352 | I5 |
| C2C4 | J8 | C507 | I3 | R294 | I8 | R3F6 | J2 | TP233 | J7 | TP353 | H6 |
| C2C9 | J8 | C508 | K5 | R295 | J8 | R3F8 | K2 | TP234 | J7 | TP354 | I5 |
| C2D1 | K7 | C509 | K5 | R296 | J8 | R3F9 | J2 | TP239 | K7 | TP355 | H5 |
| C2D2 | K9 | C510 | K5 | R297 | J8 | R407 | H3 | TP241 | J6 | TP356 | H5 |
| C2D3 | K8 | C511 | K5 | R2A0 | K8 | R408 | H2 | TP243 | J7 | TP357 | H5 |
| C2D4 | G7 | C512 | K5 | R2A2 | K9 | R425 | H4 | TP245 | I7 | TP358 | H5 |
| C2D7 | K8 | C513 | J5 | R2A6 | K8 | R426 | H4 | TP2A2 | L8 | TP363 | K1 |
| C2D8 | I8 | C514 | J5 | R2A9 | K8 | R451 | I1 | TP2A3 | K8 | TP3A1 | K2 |
| C2D9 | I8 | C515 | J5 | R2B3 | K8 | R452 | I1 | TP2A4 | J9 | TP3A2 | L2 |
| C2E0 | J8 | C516 | J5 | R2B7 | J8 | R453 | J1 | TP2A6 | K8 | TP3A3 | L2 |
| C2E1 | J8 | C517 | I4 | R2B8 | J8 | R454 | J1 | TP2A8 | K9 | TP3A4 | L2 |
| C2M1 | H8 | C518 | I4 | R2C1 | J8 | R455 | J1 | TP301 | L1 | TP3A5 | L2 |
| C2M4 | H7 | C519 | I4 | R2C2 | K8 | R456 | J1 | TP302 | K2 | TP3A6 | L2 |
| C2M6 | H8 | C520 | I4 | R2C3 | K8 | R459 | I2 | TP303 | J2 | TP3A7 | L2 |
| C2M8 | H7 | C521 | I3 | R2C4 | K9 | R476 | H2 | TP304 | K1 | TP501 | I4 |
| C2M9 | H7 | IC201 | K6 | R2C6 | K8 | R493 | H1 | TP305 | K2 | TP502 | I4 |
| C2N3 | H8 | IC206 | L6 | R2C8 | K8 | R4A2 | H1 | TP306 | K1 | TP503 | I4 |
| C308 | K1 | IC2A1 | K8 | R2C9 | K8 | R4A3 | H1 | TP307 | K2 | TP504 | I4 |
| C315 | J2 | IC2A2 | K8 | R2D3 | J8 | R4A5 | H1 | TP308 | K1 | TP505 | L3 |
| C319 | L4 | IC301 | H6 | R2D5 | J9 | R4E6 | H1 | TP309 | K2 | TP506 | L4 |
| C324 | I6 | IC302 | K2 | R2E1 | J8 | R506 | I2 | TP310 | K1 | TP513 | J3 |
| C3F1 | K1 | IC303 | J2 | R2E3 | J8 | R507 | I3 | TP311 | K2 | TP514 | J3 |
| C3F5 | J2 | IC403 | H4 | R2E5 | J8 | R511 | K1 | TP312 | K2 | TP517 | J2 |
| C3F6 | J2 | IC501 | J4 | R2E6 | J8 | R514 | I4 | TP313 | K2 | X201 | L6 |
| C401 | H2 | L203 | K5 | R2E7 | J8 | R515 | I4 | TP314 | K2 | X501 | I3 |
| C402 | H3 | L208 | L7 | R2E8 | J8 | R516 | I4 | TP315 | K2 | | |
| C404 | H3 | L209 | L6 | R2E9 | K8 | R520 | I4 | TP316 | K2 | | |
| C406 | H3 | L211 | I6 | R2M8 | H7 | R522 | I4 | TP317 | K2 | | |
| C407 | H3 | L2B1 | L5 | R2M9 | H7 | R525 | K5 | TP318 | K2 | | |

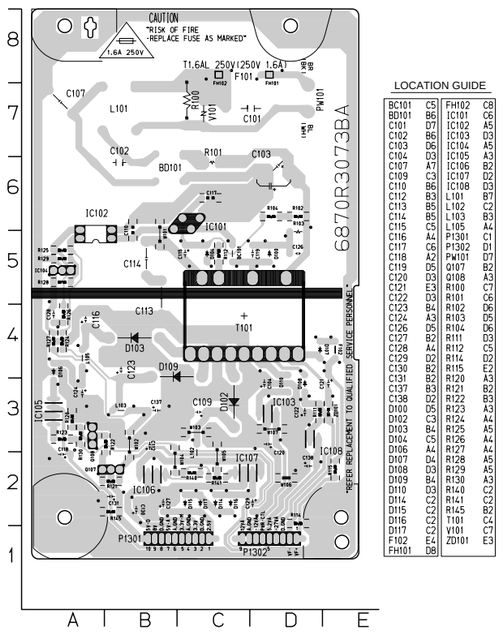
## 2. AV JACK P.C.BOARD




LOCATION GUIDE

| | | | |
|---|---|---|---|
| C601 | E9 | R601 | D9 |
| C602 | D9 | R602 | E3 |
| C603 | C9 | R603 | C3 |
| C605 | C4 | R604 | D3 |
| C606 | D9 | R610 | I3 |
| C607 | B2 | R616 | B4 |
| C608 | C9 | R617 | C4 |
| C613 | H3 | R618 | D3 |
| C614 | G3 | R619 | D3 |
| C615 | H3 | R620 | D3 |
| C650 | J4 | R621 | D3 |
| C652 | K4 | R622 | B2 |
| C653 | J3 | R625 | J3 |
| C654 | J3 | R627 | C3 |
| C655 | I3 | R633 | H3 |
| C656 | K2 | R638 | K2 |
| C657 | K3 | R639 | K2 |
| C660 | K3 | R651 | I3 |
| C661 | K4 | R652 | H2 |
| C662 | J3 | R660 | C4 |
| C663 | I3 | R661 | C3 |
| C664 | J3 | R662 | J3 |
| F602 | F3 | R663 | J3 |
| F603 | G3 | R664 | K2 |
| F604 | G3 | R665 | K3 |
| F605 | D3 | R666 | J3 |
| F606 | D3 | R667 | I3 |
| F607 | D3 | R668 | K3 |
| F608 | H2 | R669 | K4 |
| F611 | F3 | R672 | E3 |
| F612 | E3 | R673 | D3 |
| F613 | E3 | R674 | D3 |
| F614 | F3 | R675 | D3 |
| F615 | F3 | R676 | H3 |
| F616 | F3 | R677 | H2 |
| F617 | K2 | RGM1 | E3 |
| F618 | K2 | RGM2 | E3 |
| F622 | H3 | RGM3 | E3 |
| IC601 | K3 | RGM4 | E3 |
| J601 | G3 | SW601 | C2 |
| J618 | G3 | ZD602 | H2 |
| J630 | B3 | ZD603 | B2 |
| J641 | J3 | ZD604 | B2 |
| J642 | K3 | ZD605 | C2 |
| J643 | J3 | ZD606 | C2 |
| JK601 | B2 | ZD611 | D3 |
| JK602 | F2 | ZD612 | D3 |
| JK603 | J2 | ZD635 | H2 |
| L601 | J4 | ZD636 | H2 |
| L602 | G3 | ZD637 | G3 |
| L603 | G2 | ZD638 | G3 |
| P6401 | H4 | ZD639 | I3 |
| P6402 | I4 | ZD640 | I3 |
| Q605 | C4 | ZD641 | E3 |
| Q606 | C3 | ZD642 | E3 |
| Q616 | I3 | ZD643 | E3 |
| Q618 | K2 | ZD644 | E3 |
| Q619 | K2 | | |

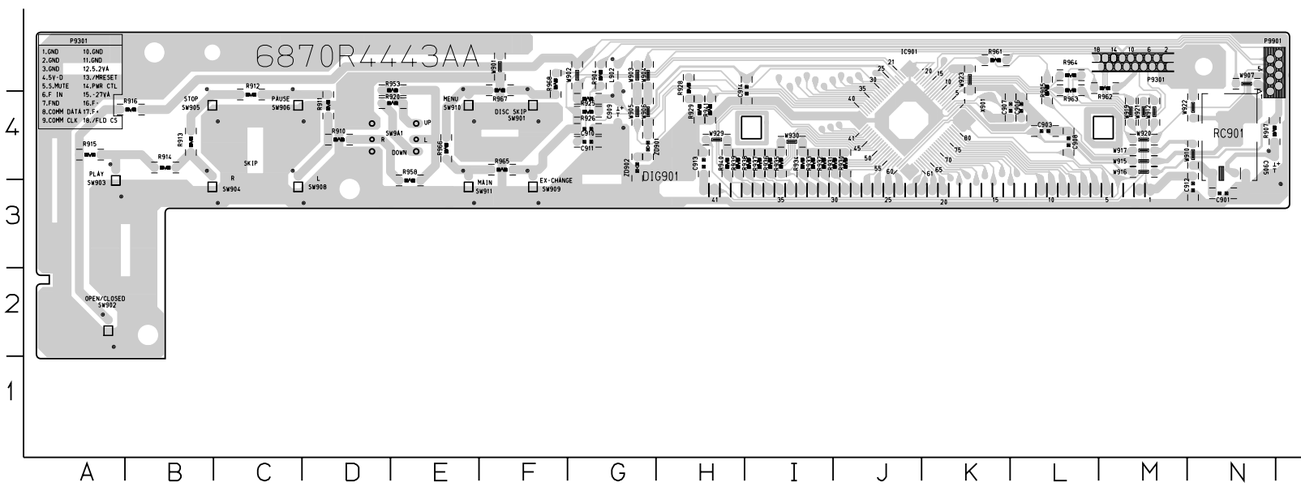
## 3. SMPS P.C.BOARD




LOCATION GUIDE

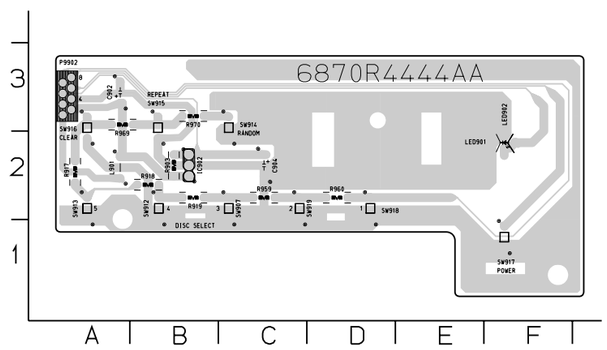
| | | | |
|---|---|---|---|
| BC101 | C5 | FH102 | C8 |
| BD101 | B6 | IC101 | C6 |
| C101 | D7 | IC102 | A5 |
| C102 | B6 | IC103 | D3 |
| C103 | D6 | IC104 | A5 |
| C104 | D3 | IC105 | A3 |
| C107 | A7 | IC106 | B2 |
| C109 | C3 | IC107 | D2 |
| C110 | B6 | IC108 | D3 |
| C112 | B3 | L101 | B7 |
| C113 | B5 | L102 | C2 |
| C114 | B5 | L103 | B3 |
| C115 | C5 | L105 | A4 |
| C116 | A4 | P1301 | C1 |
| C117 | C6 | P1302 | D1 |
| C118 | A2 | PW101 | D7 |
| C119 | D5 | Q107 | B2 |
| C120 | D3 | Q108 | A3 |
| C121 | E3 | R100 | C7 |
| C122 | D3 | R101 | C6 |
| C123 | B4 | R102 | D6 |
| C124 | A3 | R103 | D5 |
| C126 | D5 | R104 | D6 |
| C127 | B2 | R111 | D3 |
| C128 | A4 | R112 | C5 |
| C129 | D2 | R114 | D2 |
| C130 | B2 | R115 | E2 |
| C131 | B2 | R120 | A3 |
| C137 | B3 | R121 | B2 |
| C138 | D2 | R122 | B3 |
| D100 | D5 | R123 | A3 |
| D102 | C3 | R124 | A4 |
| D103 | B4 | R125 | A5 |
| D104 | C5 | R126 | A4 |
| D106 | A4 | R127 | A4 |
| D107 | D4 | R128 | A5 |
| D108 | D3 | R129 | A5 |
| D109 | B4 | R130 | A3 |
| D110 | D3 | R140 | C2 |
| D114 | C2 | R141 | C2 |
| D115 | C2 | R145 | B2 |
| D116 | C2 | T101 | C4 |
| D117 | C2 | V101 | C7 |
| F102 | E4 | ZD101 | E3 |
| FH101 | D8 | | |

## 4. FRONT P.C.BOARD




LOCATION GUIDE

| | | | | | |
|---|---|---|---|---|---|
| C901 | N3 | R915 | A4 | R967 | F5 |
| C902 | C11 | R916 | B4 | R968 | F5 |
| C903 | L4 | R917 | C10 | R969 | C11 |
| C904 | E10 | R918 | D10 | R970 | D11 |
| C905 | N4 | R919 | D10 | RC901 | N4 |
| C906 | L4 | R920 | E4 | SW901 | F4 |
| C907 | L4 | R925 | G4 | SW902 | A2 |
| C908 | L4 | R926 | G4 | SW903 | A3 |
| C909 | G4 | R928 | H5 | SW904 | B3 |
| C910 | G4 | R929 | H4 | SW905 | B4 |
| C911 | G4 | R930 | J4 | SW906 | C4 |
| C912 | N3 | R931 | J4 | SW907 | E10 |
| C913 | H4 | R932 | I4 | SW908 | C3 |
| C914 | I5 | R933 | I4 | SW909 | F3 |
| DIG901 | K4 | R934 | I4 | SW910 | E4 |
| IC901 | J4 | R935 | I4 | SW911 | E3 |
| IC902 | D10 | R936 | I4 | SW912 | D10 |
| L901 | C10 | R937 | I4 | SW913 | C10 |
| L902 | G5 | R938 | I4 | SW914 | E11 |
| LED901 | H11 | R939 | H4 | SW915 | D11 |
| P9301 | M5 | R940 | H4 | SW916 | C11 |
| P9901 | N4 | R941 | H4 | SW917 | H10 |
| P9902 | C11 | R953 | E5 | SW918 | F10 |
| R903 | D10 | R958 | E3 | SW919 | E10 |
| R904 | G5 | R959 | E10 | SW9A1 | E4 |
| R905 | L5 | R960 | F10 | X901 | K4 |
| R907 | N4 | R961 | K5 | ZD901 | G4 |
| R910 | D4 | R962 | M5 | ZD902 | G4 |
| R911 | D4 | R963 | L5 | | |
| R912 | C4 | R964 | L5 | | |
| R913 | B4 | R965 | F4 | | |
| R914 | B4 | R966 | E4 | | |



# SECTION 4 MECHANISM/PARTS LIST

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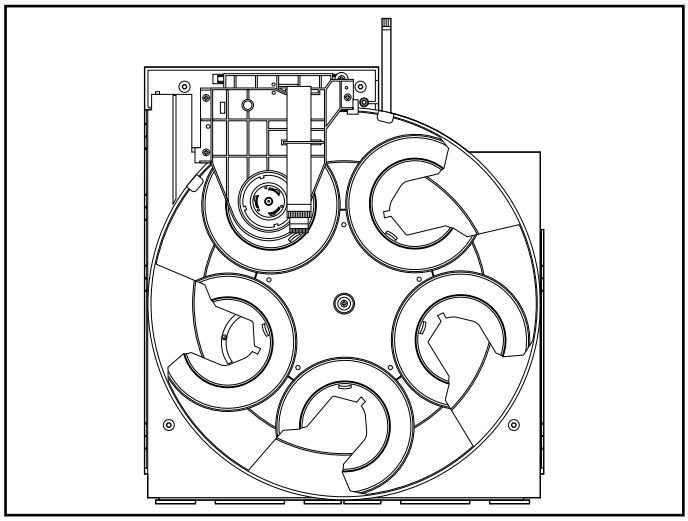
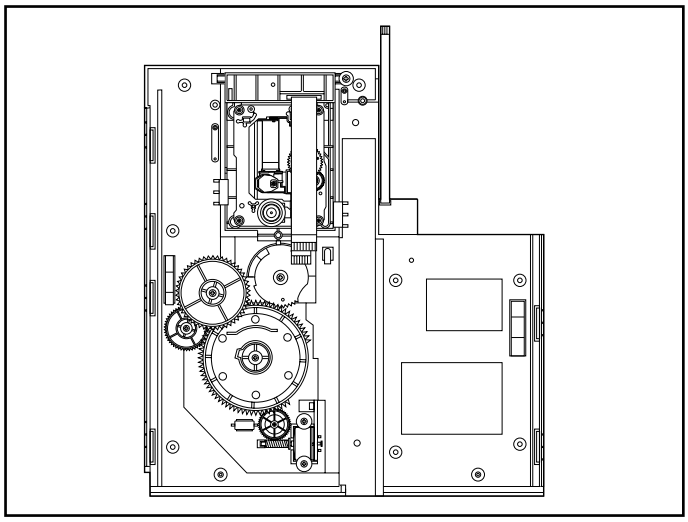
# DECK MECHANISM PARTS LOCATION

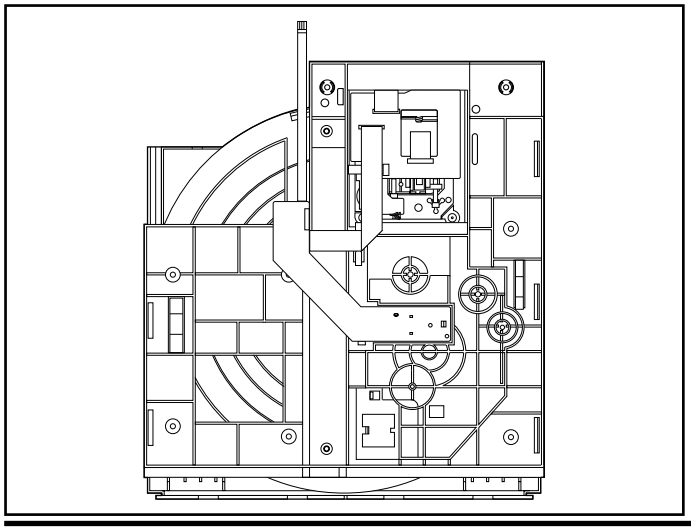
## • Top View (With Tray)



## • Top View (Without Tray)



## • Bottom View



| Procedure Starting No. | | Parts | Fixing Type | Disassembly | Figure |
|---|---|---|---|---|---|
| | 1 | Holder Assembly Clamp | 3 Screws<br>2 Connectors<br>1 Hook | Top | 4-1 |
| 1 | 2 | Plate Calmp | | Top | 4-1 |
| 1,2 | 3 | Magnet Clamp | | Top | 4-1 |
| 1,2,3 | 4 | Upper Clamp | | Top | 4-1 |
| 1,2,3,4 | 5 | Holder Clamp | | Top | 4-1 |
| | 6 | Base Assembly Tray | 2 Locking Tabs | Top | 4-2 |
| | 7 | Tray Disc | 1 Screw | Top | 4-2 |
| 6 | 8 | Roller Base Tray | 2 Locking Tabs | Bottom | 4-2 |
| 6 | 9 | PCB Assembly Tray | 2 Screws<br>1 Connector | Bottom | 4-2 |
| 6,7 | 10 | Motor Assembly Tray | 2 Screws | Top | 4-2 |
| 6,7,10 | 11 | Gear Tray | | Top | 4-2 |
| 6,7,10,11 | 12 | Gear Wheel Tray | | Top | 4-2 |
| 6,7,8,9,10,11,12 | 13 | Base Tray | | Top | 4-2 |
| 1 | 14 | Frame Assemly Up/Down | 1 Screw | Top | 4-3 |
| | 15 | PCB Assembly Junction | 2 Screws<br>5 Connectors | Bottom | 4-3 |
| 1 | 16 | Base Assembly Sled Damper | 4 Screws<br>1 Connector | Top | 4-3 |
| 1 | 17 | Gear Assembly Feed | 1 Locking Tab | Top | 4-3 |
| 1,17 | 18 | Gear Middle | | Top | 4-3 |
| 1,17 | 19 | Gear Assembly Rack | 1 Screw | Top | 4-3 |
| 1 | 20 | Rubber Damper | | Top | 4-3 |
| 1,15,16,17,18,19,20 | 21 | Frame Up/Down | | Top | 4-3 |
| 1,14 | 22 | Base Assembly Main | | Top | 4-4 |
| | 23 | PCB Assembly Main Mode | 2 Connectors<br>3 Screws | Bottom | 4-4 |
| 6 | 24 | Gear Slider | 1 Screw | Top | 4-4 |
| 6,24 | 25 | Gear Exchange | 1 Screw | Top | 4-4 |
| 6,24 | 26 | Gear Main | 1 Screw | Top | 4-4 |
| 6,24,26 | 27 | Gear Up/Down | 1 Screw | Top | 4-4 |
| 6,24,26 | 28 | Gear Wheel Main | 1 Screw | Top | 4-4 |
| 6,24,26,28 | 29 | Gear Loading | | Top | 4-4 |
| 6,28 | 30 | Motor Assembly Main | 2 Screws<br>1 Locking Tab | Top | 4-4 |
| 1,6,14,23,24,25,26,27,28,29,30 | 31 | Base Main | | Top | 4-4 |

**Note**

When reassembling, perform the procedure in reverse order.

The “Bottom” on Disassembly column of above Table indicates the part should be disassembled at the Bottom side.

# DECK MECHANISM DISASSEMBLY

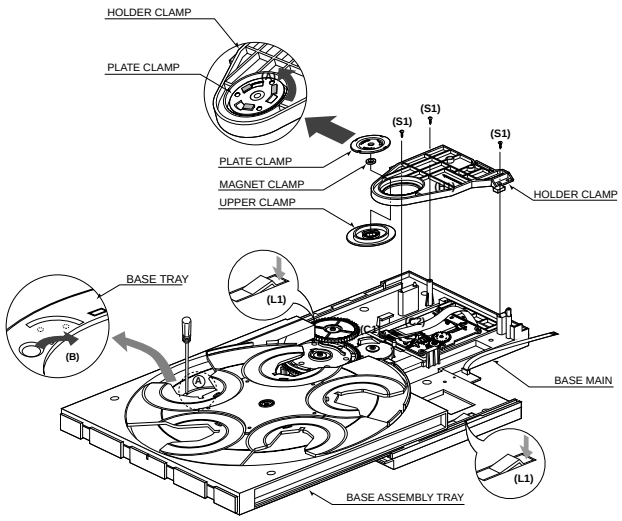



Fig. 4-1

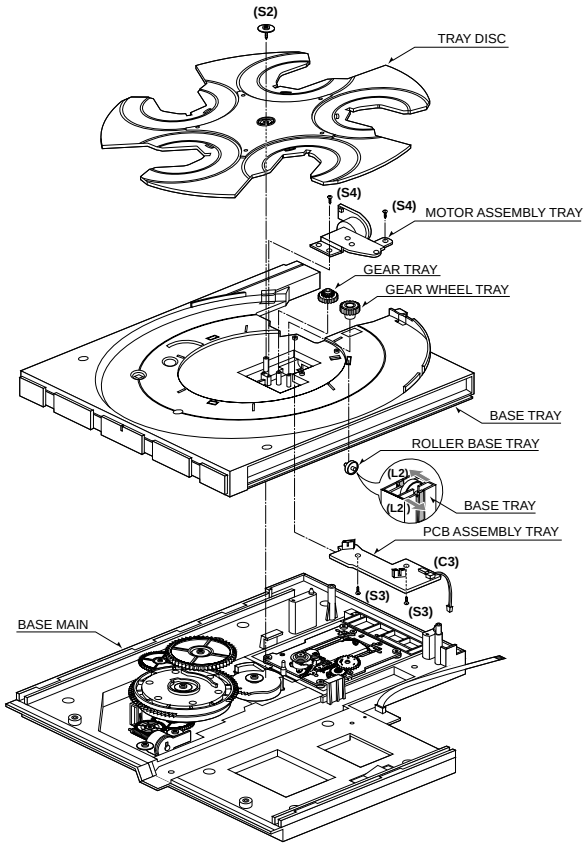



Fig. 4-2

## 1. Holder Assembly Clamp(Fig. 4-1)

1) Release 3 Screws(S1).
2) Unlock The Connectors (C1), (C2) from the Hook(H1).

### 1-1. Plate Clamp

1) Hold and fix the Upper Clamp under the Holder Assembly Clamp, and then turn the Plate Clamp to the counterclockwise direction(arrow(A)).

### 1-2. Magnet Clamp

### 1-3. Upper Clamp

### 1-4. Holder Clamp

**Note**

• When reassembling, hold and fix the Upper Clamp as above No. 1-1(1), and then turn the Plate Clamp to the clockwise direction.

## 2. Base Assembly Tray(Fig. 4-1)

1) Turn the Ⓐ portion to the direction of arrow(B) to move the Base Assembly Tray in front of you.
2) Push down two Locking Tabs(L1) located to both sides of the Base Main, and then pull the Base Assembly Tray in fornt of you.

### 2-1. Tray Disc(Fig.4-2)

1) Release Screw(S2).

**Note**

• Put the Base Assembly Tray face down(Bottom side).

### 2-2. Roller Base Tray

1) Unlock the two Locking Tabs(L2).

### 2-3. PCB Assembly Tray

1) Release two Screws(S3).
2) Unconnect the Connector(C3).

**Note**

• Put the Base Assembly Tray on original position(Top Side).

### 2-4. Motor Assembly Tray

1) Release 2 Screws(S4).

### 2-5. Gear Tray

### 2-6. Gear Wheel Tray

### 2-7. Base Tray

# DECK MECHANISM DISASSEMBLY

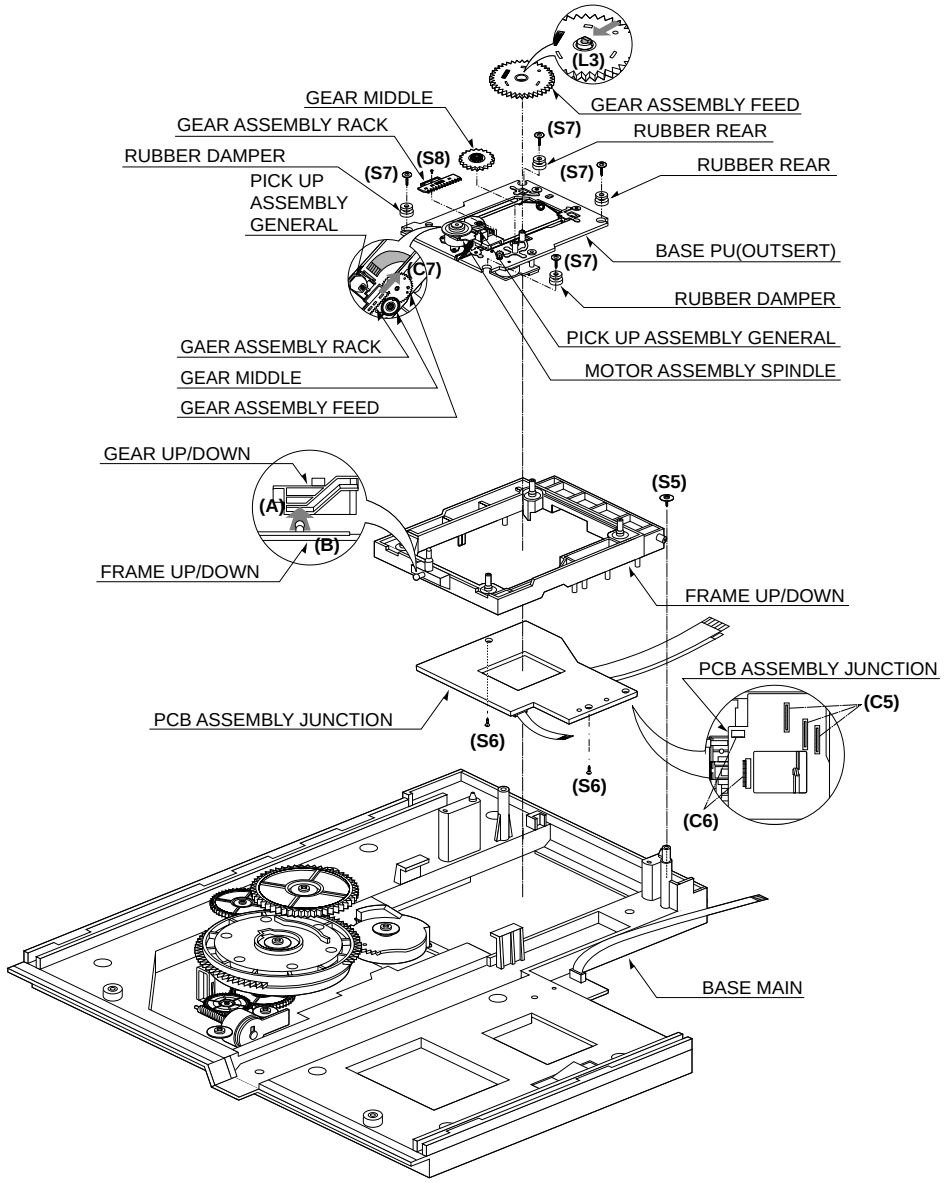



**Fig. 4-3**

## 3. Frame Assembly Up/Down(Fig. 4-3)

1) Release Screw(S5).

### 3-1. PCB Assembly Junction

1)Unconnect the 5 Connectors(C5), (C6).
2)Release 2 Screws(S6).

### 3-2. Base Assembly Sled Damper

**Note**

• Put the Base Assembly Main on original position(Top side)

1) Release 4 Screws(S7).
2) Disconnect the Connector(C7).

### 3-2-1. Gear Assembly Feed

1) Look the Locking Tab(L3) in direction of arrow.

### 3-2-2. Gear Assembly Middle

### 3-2-3. Gear Assembly Rack

1) Release the Screw(S8).

### 3-3. Rubber Damper

### 3-4. Frame Up/Down

# DECK MECHANISM DISASSEMBLY

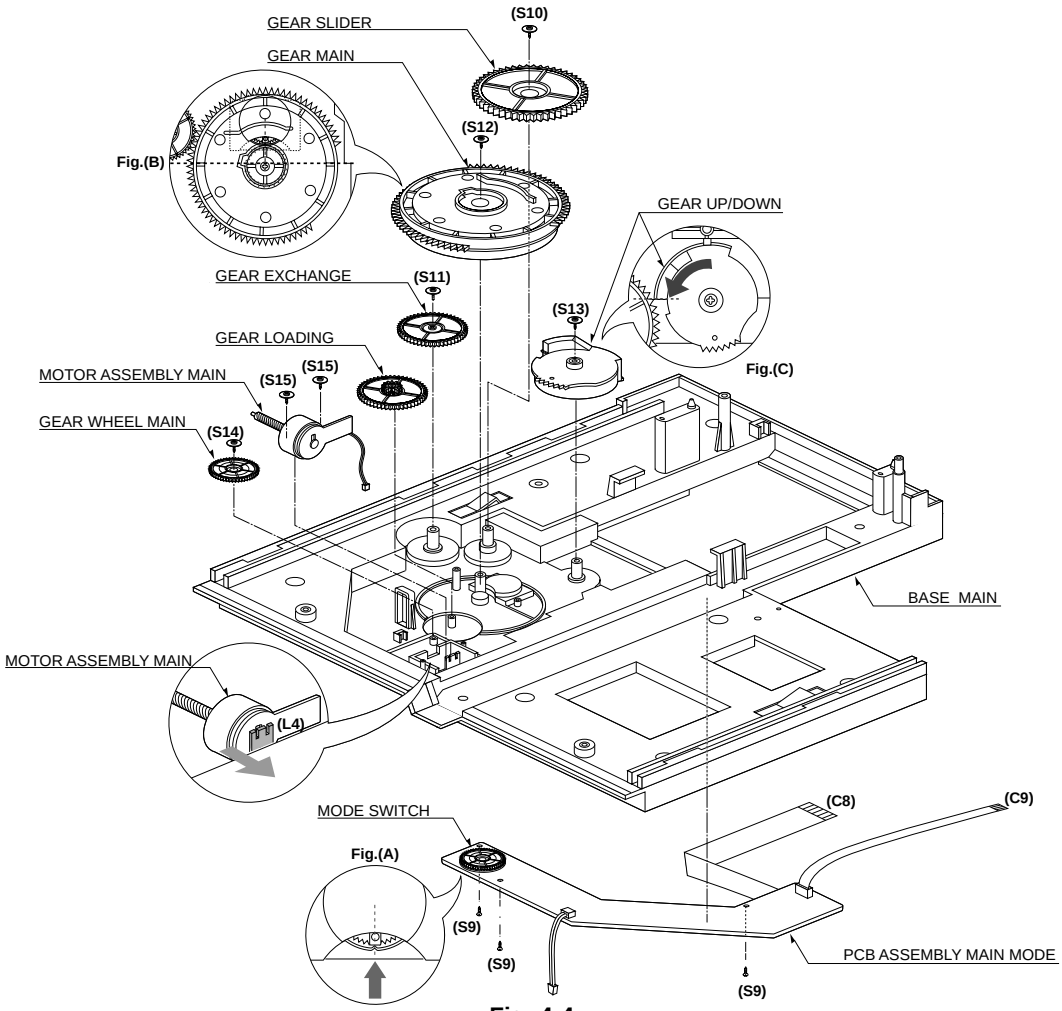



**Fig. 4-4**

## 4. Base Assembly Main(Fig. 4-4)

**Note**

- Put the Base Assembly Main face down(Bottom Side).

### 4-1. PCB Assembly Main Mode

1) Unconnect the Connectors (C8), (C9).
2) Release three Screws(S9).

**Note**

- When reassembling, align the Mode Switch position as Fig.(A).
- Put the Base Assembly Main on original position(Top Side)

### 4-2. Gear Slider

1) Release Screw(S10).

### 4-3. Gear Exchange

1) Release Screw(S11).

### 4-4. Gear Main

1) Release Screw(S12).

**Note**

- When reassembling, align the (A) position of the Gear Main to the (B) position of Mode Switch as Fig.(B)

### 4-5. Gear Up/Down

1) Release Screw(S13).

**Note**

- Reassembling, turn the Gear Up/Down in direction of arrow as Fig.(C).

### 4-6. Gear Wheel Main

1) Release Screw(S14).

### 4-7. Gear Loading

### 4-8. Motor Assembly Main

1) Release 2 Screws(S15).
2) Unlock the Locking Tab(L4).

### 4-9. Base Main

# DECK MECHANISM ADJUSTMENT

## 1. Tools and Fixtures for SVC

• For SVC Program Down-Load

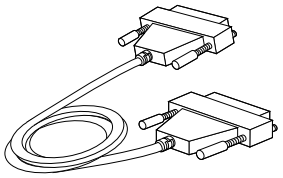


Fig.1. Printer Cable

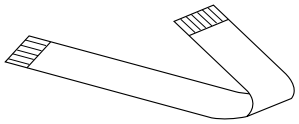


Fig.2. FFC Cable (15 pin)

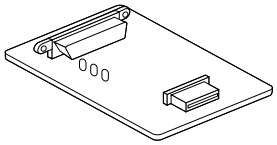


Fig.3. Jig Board

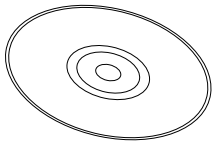


Fig.4. Deviation Disc (0.8mm)

• For T-Skew and R-Skew Adjustment

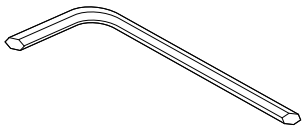


Fig.5. L-Wrench(3mm)

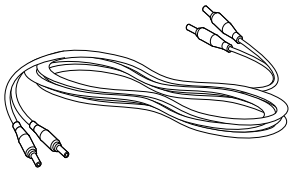


Fig.6. RCA Jack

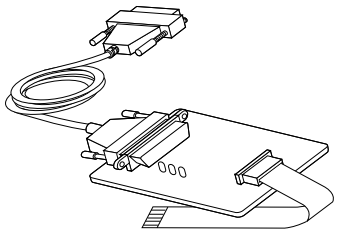


Fig.7. Connecting Method

## 2. Install Process

1. Connect Fig. 1, 2, 3 as Fig. 7.
2. Plug out the Power cord of DVD set.
3. Connect FFC Cable(Fig.2) to the Connector on DVD Set(Fig.8)
4. Connect Printer Cable(Fig.1) to the P.C.Printer Port (LPT1).
5. Plug in the DVD Power cord.
6. Press the Menu key on Remocon.
7. Confirm No.1 LED(RED Color) of Jig board is ON. (Fig.9)
8. Perform The S/W for Down-load at P.C.
9. Open the Program File for Adjusting(Fig.10)
10. Click the Down-load Icon and perform Program Down-load.
11. Displayed remaining time.
12. Confirm LED No.1(RED) and No.2(GREEN) is ON.
13. Plug out the DVD Set Power cord.
14. Disconnect the FFC Cable.

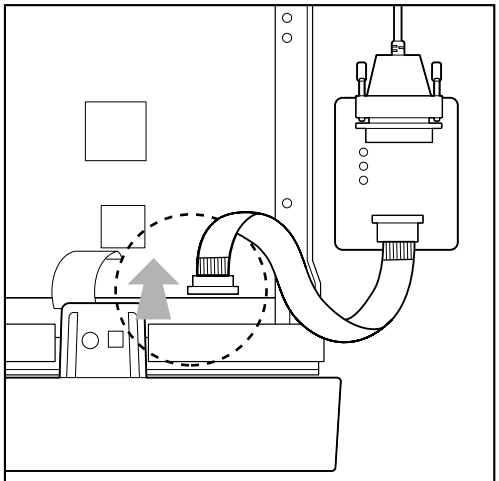


Fig.8. FFC Cable Connecting

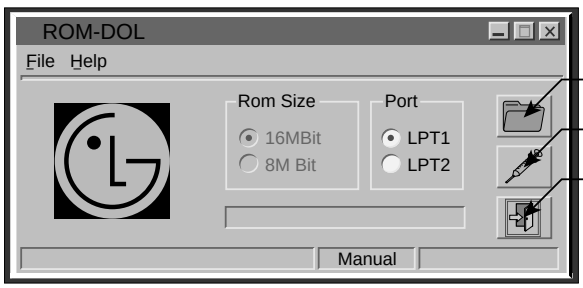



Fig.10. Adjusting Program File Open

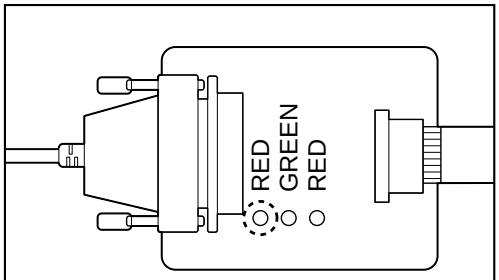



Fig.9. Jig Board LED Condition

# DECK MECHANISM ADJUSTMENT

## 3. Adjustment Procedure

1. Download the MD adjustment program into the player.
   (See 2. Install Process on page 4-5.)
2. Connect the video out of the player to a monitor.
3. Open the tray and insert the vertical deviation disc.
   (Press only OPEN/CLOSE key. Do not press PLAY key.)
4. Wait for the error rate displayed on the monitor.
   Skip to around the sector 200000 (chapter 15).
5. Adjust R-Skew with L-wrench to minimize the error rate.
6. Adjust T-Skew with L-wrench to minimize the error rate.
7. Repeat 5 and 6 procedures until the error rate becomes the following value.
   SVD-3561: below 30
   TDV-533: below 100
   (Fingerprints or dust on the deviation disc may increase the error rate.)
8. Check for picture condition at the chapter 1 and the chapter 16 of the disc.
9. After the adjustment is completed, download the original firmware.

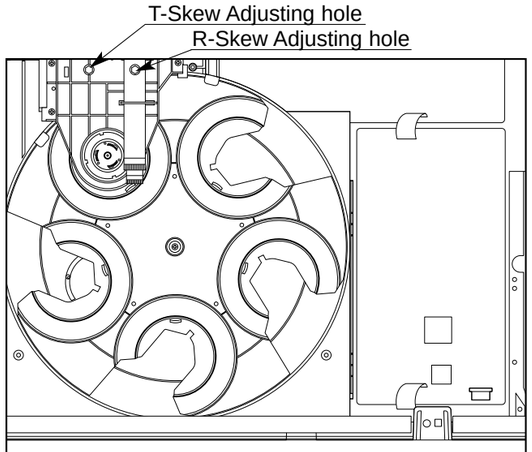


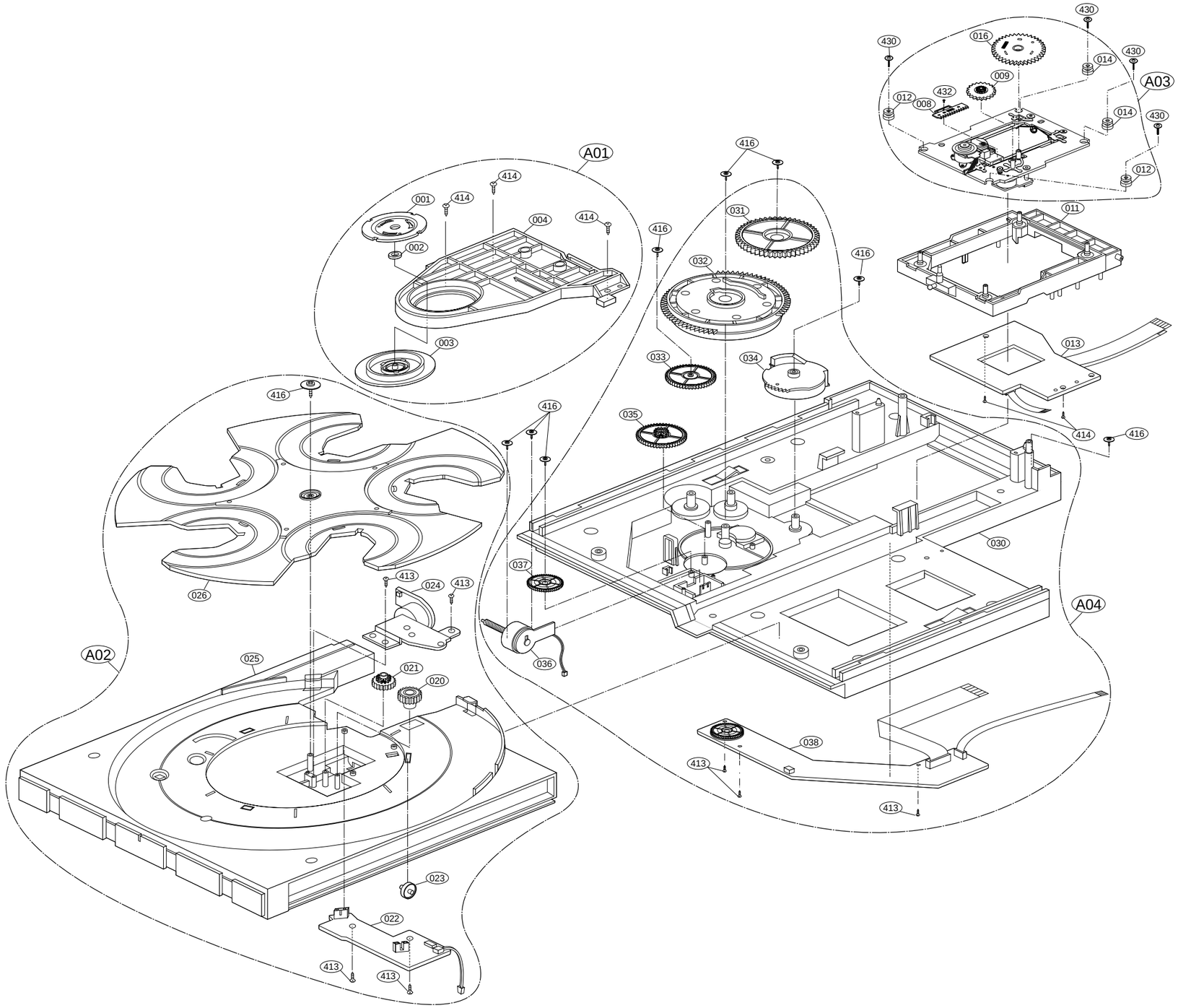

Fig.11. Adjusting Method



## M E M O

# EXPLODED VIEWS

## 1. Deck Mechanism Exploded View



## PARTS LIST

### 1.Parts List

| LOCATION No. | LGE CODE | TOSHIBA CODE | DESCRIPTION |
|---|---|---|---|
| A46 | 6871R-4407B | 79098301 | PC BOARD ASSY, MAIN, SD-2715/2705 |
| IC201 | 0IHY258010B | 79094006 | IC,HYUNDAI, GDC25D801C 208QFP BK DSP+SERVO - |
| IC201 | 0IHY258010C | 79094007 | IC,HYUNDAI, GDC25D801D 208 QFP BK DSP+SERVO 1 CHIP DVD-P |
| IC203 | 0IJR341400C | 79094009 | IC,JRC, NJM3414AM-TE1,3K/REEL. JRC - - - - |
| IC205 | 0IAY425616E | 79094001 | IC,ALLIANCE SEMICOND, AS4LC256K16EO-35 40P |
| IC205 | 0IGL440164C | 79094004 | IC,G-LINK, GLT440L16-40J4 40P SOJ TP 4M(256KX16) EDO DRAM 3.3 |
| IC205 | 0IGL441164A | 79094005 | IC,G-LINK, GLT441L16-40 J4 40SOJ TP DRAM 4M FPM |
| IC206 | GITO704000F | 79094027 | IC,TOSHIBA, TC7W04FU |
| IC2A1 | 0ITI333721A | 79094025 | IC,TEXAS INSTRUMENT, SSI33P3721(VER.2) 64 TQFP BK RF AMP |
| IC2A2 | 0IJR341400C | 79094009 | IC,JRC, NJM3414AM-TE1,3K/REEL. JRC - - - - |
| IC2M1 | 0IFA303100A | 79094002 | IC,FAIRCHILD, KA3031 48P QFP BK 6CH MOTOR DRIVER |
| IC301 | 0IXL957210B | 79094026 | IC,XILINX, XC9572XL-10TQ100C 10 |
| IC302 | 0ISTLFA004C | 79094024 | IC,STANDARD LOGIC, 74LCX573MTCX FAIRCHI |
| IC303 | 0ISTLFA004C | 79094024 | IC,STANDARD LOGIC, 74LCX573MTCX FAIRCHI |
| IC304 | 0IHY576532A | 79094008 | IC,HYUNDAI, HY57V653220CTC-7 86P |
| IC305 | 0IMMRFA001A | 79094015 | IC,MEMORIES, FM93C46M8X FAIRCHILD |
| IC306 | 0IMMRAL005B | 79094014 | IC,AT49F1614 |
| IC501 | 0INS850100A | 79094016 | IC,NATIONAL SEMICOND, NDV8501VWB 240 VQFP |
| IC502 | 0IFA742440F | 79094003 | IC,FAIRCHILD, MM74HCT244SJ 20P SOI |
| Q2A1 | 0TR103709BB | 79095002 | TRANSISTOR,BIPOLARS, 2SA1037K-Q CHIP TP ROHM - - |
| Q2A2 | 0TR103709BB | 79095002 | TRANSISTOR,BIPOLARS, 2SA1037K-Q CHIP TP ROHM - - |
| Q2M1 | 0TR103009AA | 79095001 | TRANSISTOR,BIPOLARS, CHIP KRC103S-T1(NC)22-22 TP KEC - - |
| Q2M2 | 0TR103009AA | 79095001 | TRANSISTOR,BIPOLARS, CHIP KRC103S-T1(NC)22-22 TP KEC - - |
| Q2M3 | 0TR103009AA | 79095001 | TRANSISTOR,BIPOLARS, CHIP KRC103S-T1(NC)22-22 TP KEC - - |
| Q301 | 0TR103009AA | 79095001 | TRANSISTOR,BIPOLARS, CHIP KRC103S-T1(NC)22-22 TP KEC - - |
| D2A1 | 0DS202009CA | 79096013 | DIODE,SWITCHING, DAN202K TP ROHM KOREA SOT23 80V - - 4NSEC 0.1UA |
| D2A2 | 0DS202009CA | 79096013 | DIODE,SWITCHING, DAN202K TP ROHM KOREA SOT23 80V - - 4NSEC 0.1UA |
| X201 | 6202R-BM01A | 79098902 | CRYSTAL,SMD, HC-49/SM5H KONY CHIP 33.8688MHZ 50PPM 18PF TP |
| X501 | 6202R-BL01A | 79098901 | CRYSTAL,SMD, HC-49/SM5H KONY CHIP 27MHZ 20PPM 15PF TP |
| L203 | 6200HJC102A | 79091005 | FILTER(CIRC),EMI, HB-1M2012-102JT CERATECH TP 3K/REEL |
| L208 | 6200HJC102A | 79091005 | FILTER(CIRC),EMI, HB-1M2012-102JT CERATECH TP 3K/REEL |
| L211 | 6200HJC102A | 79091005 | FILTER(CIRC),EMI, HB-1M2012-102JT CERATECH TP 3K/REEL |
| L3F4 | 6200HJC102A | 79091005 | FILTER(CIRC),EMI, HB-1M2012-102JT CERATECH TP 3K/REEL |
| L502 | 6200HJC102A | 79091005 | FILTER(CIRC),EMI, HB-1M2012-102JT CERATECH TP 3K/REEL |
| L503 | 6200HJC102A | 79091005 | FILTER(CIRC),EMI, HB-1M2012-102JT CERATECH TP 3K/REEL |
| C201 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C202 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C203 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C205 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C206 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C207 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C210 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C221 | 0CH8476C611 | 79092031 | CAPACITOR,CHIP[AL. ELECTROLYTIC], 47UF 6.3V 20% 85STD (CYL) R/TP |
| C223 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C224 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C226 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C227 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C228 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C229 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C232 | 0CH7106C611 | 79092029 | CAPACITOR,FIXED TANTALUM, 10UF 6.3V 20% 3216 TP(-) |
| C237 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C238 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C239 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C240 | 0CH1222K562 | 79092016 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 2200PF 50V 10% X7R(X) 1608 R/TP |
| C241 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C242 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C245 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C250 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C255 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C256 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C257 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C258 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C260 | 0CH4100K112 | 79092023 | CAPACITOR,FIXED CERAMIC(High dielectric), 10PF 50V 0.5 pF NP0 1608 R/TP |
| C270 | 0CH1225F944 | 79092018 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 2.2UF 16V 80%,-20% Y5V(F) 3216 R/TP |
| C271 | 0CH7106C611 | 79092029 | CAPACITOR,FIXED TANTALUM, 10UF 6.3V 20% 3216 TP(-) |
| C272 | 0CH8476C611 | 79092031 | CAPACITOR,CHIP[AL. ELECTROLYTIC], 47UF 6.3V 20% 85STD (CYL) R/TP |
| C273 | 0CH1225F944 | 79092018 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 2.2UF 16V 80%,-20% Y5V(F) 3216 R/TP |
| C274 | 0CH8476C611 | 79092031 | CAPACITOR,CHIP[AL. ELECTROLYTIC], 47UF 6.3V 20% 85STD (CYL) R/TP |
| C275 | 0CH7106C611 | 79092029 | CAPACITOR,FIXED TANTALUM, 10UF 6.3V 20% 3216 TP(-) |
| C276 | 0CH7106C611 | 79092029 | CAPACITOR,FIXED TANTALUM, 10UF 6.3V 20% 3216 TP(-) |
| C278 | 0CH7106C611 | 79092029 | CAPACITOR,FIXED TANTALUM, 10UF 6.3V 20% 3216 TP(-) |
| C279 | 0CH7106C611 | 79092029 | CAPACITOR,FIXED TANTALUM, 10UF 6.3V 20% 3216 TP(-) |
| C280 | 0CH7106C611 | 79092029 | CAPACITOR,FIXED TANTALUM, 10UF 6.3V 20% 3216 TP(-) |
| C281 | 0CH7106C611 | 79092029 | CAPACITOR,FIXED TANTALUM, 10UF 6.3V 20% 3216 TP(-) |
| C282 | 0CH7106C611 | 79092029 | CAPACITOR,FIXED TANTALUM, 10UF 6.3V 20% 3216 TP(-) |
| C284 | 0CH8476C611 | 79092031 | CAPACITOR,CHIP[AL. ELECTROLYTIC], 47UF 6.3V 20% 85STD (CYL) R/TP |
| C285 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C286 | 0CH4220K412 | 79092024 | CAPACITOR,FIXED CERAMIC(High dielectric), 22PF 50V 5% NP0 1608 R/TP |
| C287 | 0CH4220K412 | 79092024 | CAPACITOR,FIXED CERAMIC(High dielectric), 22PF 50V 5% NP0 1608 R/TP |

| LOCATION No. | LGE CODE | TOSHIBA CODE | DESCRIPTION |
|---|---|---|---|
| C288 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C2A0 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C2A1 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C2A2 | 0CH1222K562 | 79092016 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 2200PF 50V 10% X7R(X) 1608 R/TP |
| C2A3 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C2A4 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C2A5 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C2A6 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C2A7 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C2A8 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C2A9 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C2B0 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C2B1 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C2B2 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C2B3 | 0CH1473H942 | 79092021 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.047UF 25V 80%,-20% Y5V(F) 1608 R/TF |
| C2B4 | 0CH4561K512 | 79092028 | CAPACITOR,FIXED CERAMIC(High dielectric), 560PF 50V 10% NP0 1608 R/TP |
| C2B5 | 0CH4561K512 | 79092028 | CAPACITOR,FIXED CERAMIC(High dielectric), 560PF 50V 10% NP0 1608 R/TP |
| C2B6 | 0CH1333K562 | 79092019 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.033UF 50V 10% X7R(X) 1608 R/TP |
| C2B7 | 0CH1333K562 | 79092019 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.033UF 50V 10% X7R(X) 1608 R/TP |
| C2B8 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C2B9 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C2C0 | 0CH4221K412 | 79092025 | CAPACITOR,FIXED CERAMIC(High dielectric), 220PF 50V 5% NP0 1608 R/TP |
| C2C1 | 0CH1222K562 | 79092016 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 2200PF 50V 10% X7R(X) 1608 R/TP |
| C2C2 | 0CH1222K562 | 79092016 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 2200PF 50V 10% X7R(X) 1608 R/TP |
| C2C3 | 0CH1222K562 | 79092016 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 2200PF 50V 10% X7R(X) 1608 R/TP |
| C2C4 | 0CH1222K562 | 79092016 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 2200PF 50V 10% X7R(X) 1608 R/TP |
| C2C5 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C2C8 | 0CH4330K412 | 79092026 | CAPACITOR,FIXED CERAMIC(High dielectric), 33PF 50V 5% NP0 1608 R/TP |
| C2C9 | 0CH4330K412 | 79092026 | CAPACITOR,FIXED CERAMIC(High dielectric), 33PF 50V 5% NP0 1608 R/TP |
| C2D0 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C2D1 | 0CH8476C611 | 79092031 | CAPACITOR,CHIP[AL. ELECTROLYTIC], 47UF 6.3V 20% 85STD (CYL) R/TP |
| C2D2 | 0CH8476C611 | 79092031 | CAPACITOR,CHIP[AL. ELECTROLYTIC], 47UF 6.3V 20% 85STD (CYL) R/TP |
| C2D3 | 0CH8476C611 | 79092031 | CAPACITOR,CHIP[AL. ELECTROLYTIC], 47UF 6.3V 20% 85STD (CYL) R/TP |
| C2D4 | 0CH8476C611 | 79092031 | CAPACITOR,CHIP[AL. ELECTROLYTIC], 47UF 6.3V 20% 85STD (CYL) R/TP |
| C2D5 | 0CH1225F944 | 79092018 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 2.2UF 16V 80%,-20% Y5V(F) 3216 R/TP |
| C2D6 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C2D7 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C2D9 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C2E1 | 0CH1182K562 | 79092015 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 1800PF 50V 10% X7R(X) 1608 R/TP |
| C2M1 | 0CH8107F611 | 79092030 | CAPACITOR,CHIP[AL. ELECTROLYTIC], 100UF 16V 20% 85STD (CYL) R/TP |
| C2M2 | 0CH1682K562 | 79092022 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 6800PF 50V 10% X7R(X) 1608 R/TP |
| C2M3 | 0CH1472K562 | 79092020 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 4700PF 50V 10% X7R(X) 1608 R/TP |
| C2M4 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C2M5 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C2M6 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C2M7 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C2M8 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C2M9 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C2N1 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C2N2 | 0CH1103K562 | 79092013 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.01UF 50V 10% X7R(X) 1608 R/TP |
| C2N3 | 0CH1223K942 | 79092017 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.022UF 50V 80%,-20% Y5V(F) 1608 R/TF |
| C2N4 | 0CH1225F944 | 79092018 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 2.2UF 16V 80%,-20% Y5V(F) 3216 R/TP |
| C2N5 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C301 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C302 | 0CH7106C611 | 79092029 | CAPACITOR,FIXED TANTALUM, 10UF 6.3V 20% 3216 TP(-) |
| C303 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C304 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C305 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C306 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C307 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C308 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C309 | 0CH1225F944 | 79092018 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 2.2UF 16V 80%,-20% Y5V(F) 3216 R/TP |
| C310 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C311 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C312 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C313 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C315 | 0CH4560K412 | 79092027 | CAPACITOR,FIXED CERAMIC(High dielectric), 56PF 50V 5% NP0 1608 R/TP |
| C316 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C317 | 0CH7106C611 | 79092029 | CAPACITOR,FIXED TANTALUM, 10UF 6.3V 20% 3216 TP(-) |
| C318 | 0CH1103K562 | 79092013 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.01UF 50V 10% X7R(X) 1608 R/TP |
| C319 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C324 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C3F1 | 0CH8476C611 | 79092031 | CAPACITOR,CHIP[AL. ELECTROLYTIC], 47UF 6.3V 20% 85STD (CYL) R/TP |
| C3F2 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C3F3 | 0CH7106C611 | 79092029 | CAPACITOR,FIXED TANTALUM, 10UF 6.3V 20% 3216 TP(-) |
| C3F4 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C3F5 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C3F6 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C503 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C504 | 0CH7106C611 | 79092029 | CAPACITOR,FIXED TANTALUM, 10UF 6.3V 20% 3216 TP(-) |
| C505 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C506 | 0CH7106C611 | 79092029 | CAPACITOR,FIXED TANTALUM, 10UF 6.3V 20% 3216 TP(-) |
| C507 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |

| LOCATION No. | LGE CODE | TOSHIBA CODE | DESCRIPTION |
|---|---|---|---|
| C508 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C509 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C510 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C511 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C512 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C513 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C514 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C515 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C516 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C517 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C518 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C519 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C520 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C521 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C522 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C523 | 0CH7106C611 | 79092029 | CAPACITOR,FIXED TANTALUM, 10UF 6.3V 20% 3216 TP(-) |
| C525 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C526 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C527 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C528 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C529 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C530 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C531 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C532 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C533 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C534 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C535 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C536 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| C538 | 0CH7106C611 | 79092029 | CAPACITOR,FIXED TANTALUM, 10UF 6.3V 20% 3216 TP(-) |
| C543 | 0CH1104K942 | 79092014 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 0.1UF 50V 80%,-20% Y5V(F) 1608 R/TP |
| R201 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R202 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R203 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R204 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R207 | 0RH1004C622 | 79093030 | RESISTOR,METAL GLAZED(CHIP), 1M OHM 1 / 16 W 1608 5.00% D |
| R217 | 0RH0102C622 | 79093021 | RESISTOR,METAL GLAZED(CHIP), 10 OHM 1 / 16 W 1608 5.00% D |
| R218 | 0RH4700C622 | 79093044 | RESISTOR,METAL GLAZED(CHIP), 470 OHM 1 / 16 W 1608 5.00% D |
| R219 | 0RH1002C622 | 79093029 | RESISTOR,METAL GLAZED(CHIP), 10K OHM 1 / 16 W 1608 5.00% D |
| R220 | 0RH1002C622 | 79093029 | RESISTOR,METAL GLAZED(CHIP), 10K OHM 1 / 16 W 1608 5.00% D |
| R221 | 0RH1002C622 | 79093029 | RESISTOR,METAL GLAZED(CHIP), 10K OHM 1 / 16 W 1608 5.00% D |
| R230 | 0RH1000C622 | 79093027 | RESISTOR,METAL GLAZED(CHIP), 100 OHM 1 / 16 W 1608 5.00% D |
| R231 | 0RH1000C622 | 79093027 | RESISTOR,METAL GLAZED(CHIP), 100 OHM 1 / 16 W 1608 5.00% D |
| R232 | 0RH1000C622 | 79093027 | RESISTOR,METAL GLAZED(CHIP), 100 OHM 1 / 16 W 1608 5.00% D |
| R233 | 0RH1000C622 | 79093027 | RESISTOR,METAL GLAZED(CHIP), 100 OHM 1 / 16 W 1608 5.00% D |
| R234 | 0RH1000C622 | 79093027 | RESISTOR,METAL GLAZED(CHIP), 100 OHM 1 / 16 W 1608 5.00% D |
| R235 | 0RH1000C622 | 79093027 | RESISTOR,METAL GLAZED(CHIP), 100 OHM 1 / 16 W 1608 5.00% D |
| R236 | 0RH1000C622 | 79093027 | RESISTOR,METAL GLAZED(CHIP), 100 OHM 1 / 16 W 1608 5.00% D |
| R237 | 0RH1000C622 | 79093027 | RESISTOR,METAL GLAZED(CHIP), 100 OHM 1 / 16 W 1608 5.00% D |
| R239 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R240 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R241 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R242 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R243 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R271 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R273 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R274 | 0RH6200C622 | 79093048 | RESISTOR,METAL GLAZED(CHIP), 620 OHM 1 / 16 W 1608 5.00% D |
| R275 | 0RH9100C622 | 79093052 | RESISTOR,METAL GLAZED(CHIP), 910 OHM 1 / 16 W 1608 5.00% D |
| R276 | 0RH9100C622 | 79093052 | RESISTOR,METAL GLAZED(CHIP), 910 OHM 1 / 16 W 1608 5.00% D |
| R277 | 0RH1500C622 | 79093057 | RESISTOR,METAL GLAZED(CHIP), 150 OHM 1 / 16 W 1608 5.00% D |
| R278 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R279 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R280 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R281 | 0RH2201C622 | 79093039 | RESISTOR,METAL GLAZED(CHIP), 2.2K OHM 1 / 16 W 1608 5.00% D |
| R292 | 0RH1201C622 | 79093031 | RESISTOR,METAL GLAZED(CHIP), 1.2K OHM 1 / 16 W 1608 5.00% D |
| R293 | 0RH2001C622 | 79093038 | RESISTOR,METAL GLAZED(CHIP), 2K OHM 1 / 16 W 1608 5.00% D |
| R294 | 0RH1500C622 | 79093057 | RESISTOR,METAL GLAZED(CHIP), 150 OHM 1 / 16 W 1608 5.00% D |
| R295 | 0RH2001C622 | 79093038 | RESISTOR,METAL GLAZED(CHIP), 2K OHM 1 / 16 W 1608 5.00% D |
| R296 | 0RH1500C622 | 79093057 | RESISTOR,METAL GLAZED(CHIP), 150 OHM 1 / 16 W 1608 5.00% D |
| R297 | 0RH1201C622 | 79093031 | RESISTOR,METAL GLAZED(CHIP), 1.2K OHM 1 / 16 W 1608 5.00% D |
| R2A0 | 0RH1002C622 | 79093029 | RESISTOR,METAL GLAZED(CHIP), 10K OHM 1 / 16 W 1608 5.00% D |
| R2A1 | 0RH0912C622 | 79093026 | RESISTOR,METAL GLAZED(CHIP), 91 OHM 1 / 16 W 1608 5.00% D |
| R2A2 | 0RH1202C622 | 79093032 | RESISTOR,METAL GLAZED(CHIP), 12K OHM 1 / 16 W 1608 5.00% D |
| R2A4 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R2A5 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R2A6 | 0RH1001C622 | 79093028 | RESISTOR,METAL GLAZED(CHIP), 1K OHM 1 / 16 W 1608 1.00% D |
| R2A9 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R2B1 | 0RH1001C622 | 79093028 | RESISTOR,METAL GLAZED(CHIP), 1K OHM 1 / 16 W 1608 1.00% D |
| R2B2 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R2B3 | 0RH1001C622 | 79093028 | RESISTOR,METAL GLAZED(CHIP), 1K OHM 1 / 16 W 1608 1.00% D |
| R2B4 | 0RH0182C622 | 79093022 | RESISTOR,METAL GLAZED(CHIP), 18 OHM 1 / 16 W 1608 5.00% D |
| R2B5 | 0RH0182C622 | 79093022 | RESISTOR,METAL GLAZED(CHIP), 18 OHM 1 / 16 W 1608 5.00% D |
| R2B7 | 0RH6801C622 | 79093050 | RESISTOR,METAL GLAZED(CHIP), 6.8K OHM 1 / 16 W 1608 5.00% D |
| R2B8 | 0RH1503C622 | 79093036 | RESISTOR,METAL GLAZED(CHIP), 150K OHM 1 / 16 W 1608 5.00% D |

| LOCATION No. | LGE CODE | TOSHIBA CODE | DESCRIPTION |
|---|---|---|---|
| R2B9 | 0RH1503C622 | 79093036 | RESISTOR,METAL GLAZED(CHIP), 150K OHM 1 / 16 W 1608 5.00% D |
| R2C0 | 0RH3902C622 | 79093043 | RESISTOR,METAL GLAZED(CHIP), 39K OHM 1 / 16 W 1608 5.00% D |
| R2C1 | 0RH3902C622 | 79093043 | RESISTOR,METAL GLAZED(CHIP), 39K OHM 1 / 16 W 1608 5.00% D |
| R2C2 | 0RH1001C622 | 79093028 | RESISTOR,METAL GLAZED(CHIP), 1K OHM 1 / 16 W 1608 1.00% D |
| R2C3 | 0RH1001C622 | 79093028 | RESISTOR,METAL GLAZED(CHIP), 1K OHM 1 / 16 W 1608 1.00% D |
| R2C4 | 0RH1000C622 | 79093027 | RESISTOR,METAL GLAZED(CHIP), 100 OHM 1 / 16 W 1608 5.00% D |
| R2C6 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R2C7 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R2C8 | 0RH0182C622 | 79093022 | RESISTOR,METAL GLAZED(CHIP), 18 OHM 1 / 16 W 1608 5.00% D |
| R2C9 | 0RH0182C622 | 79093022 | RESISTOR,METAL GLAZED(CHIP), 18 OHM 1 / 16 W 1608 5.00% D |
| R2D0 | 0RH1001C622 | 79093028 | RESISTOR,METAL GLAZED(CHIP), 1K OHM 1 / 16 W 1608 1.00% D |
| R2D1 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R2D4 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R2D5 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R2D6 | 0RH0912C622 | 79093026 | RESISTOR,METAL GLAZED(CHIP), 91 OHM 1 / 16 W 1608 5.00% D |
| R2D7 | 0RH0471C622 | 79093024 | RESISTOR,METAL GLAZED(CHIP), 4.7 OHM 1 / 16 W 1608 5.00% D |
| R2E6 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R2E7 | 0RH6801C622 | 79093050 | RESISTOR,METAL GLAZED(CHIP), 6.8K OHM 1 / 16 W 1608 5.00% D |
| R2E8 | 0RH1802C622 | 79093037 | RESISTOR,METAL GLAZED(CHIP), 18K OHM 1 / 16 W 1608 5.00% D |
| R2E9 | 0RH5601C622 | 79093047 | RESISTOR,METAL GLAZED(CHIP), 5.6K OHM 1 / 16 W 1608 5.00% D |
| R2M1 | 0RH1001C622 | 79093028 | RESISTOR,METAL GLAZED(CHIP), 1K OHM 1 / 16 W 1608 1.00% D |
| R2M2 | 0RH1002C622 | 79093029 | RESISTOR,METAL GLAZED(CHIP), 10K OHM 1 / 16 W 1608 5.00% D |
| R2M3 | 0RH7501C622 | 79093051 | RESISTOR,METAL GLAZED(CHIP), 7.5K OHM 1 / 16 W 1608 5.00% D |
| R2M5 | 0RH1001C622 | 79093028 | RESISTOR,METAL GLAZED(CHIP), 1K OHM 1 / 16 W 1608 1.00% D |
| R2M6 | 0RH1002C622 | 79093029 | RESISTOR,METAL GLAZED(CHIP), 10K OHM 1 / 16 W 1608 5.00% D |
| R2M7 | 0RH5601C622 | 79093047 | RESISTOR,METAL GLAZED(CHIP), 5.6K OHM 1 / 16 W 1608 5.00% D |
| R2M8 | 0RH1001C622 | 79093028 | RESISTOR,METAL GLAZED(CHIP), 1K OHM 1 / 16 W 1608 1.00% D |
| R2M9 | 0RH1002C622 | 79093029 | RESISTOR,METAL GLAZED(CHIP), 10K OHM 1 / 16 W 1608 5.00% D |
| R2N0 | 0RH1202C622 | 79093032 | RESISTOR,METAL GLAZED(CHIP), 12K OHM 1 / 16 W 1608 5.00% D |
| R2N1 | 0RH1001C622 | 79093028 | RESISTOR,METAL GLAZED(CHIP), 1K OHM 1 / 16 W 1608 1.00% D |
| R2N2 | 0RH5601C622 | 79093047 | RESISTOR,METAL GLAZED(CHIP), 5.6K OHM 1 / 16 W 1608 5.00% D |
| R2N3 | 0RH1002C622 | 79093029 | RESISTOR,METAL GLAZED(CHIP), 10K OHM 1 / 16 W 1608 5.00% D |
| R2N4 | 0RH1502C622 | 79093035 | RESISTOR,METAL GLAZED(CHIP), 15K OHM 1 / 16 W 1608 5.00% D |
| R2N5 | 0RH1202C622 | 79093032 | RESISTOR,METAL GLAZED(CHIP), 12K OHM 1 / 16 W 1608 5.00% D |
| R2N6 | 0RH1001C622 | 79093028 | RESISTOR,METAL GLAZED(CHIP), 1K OHM 1 / 16 W 1608 1.00% D |
| R2N7 | 0RH1001C622 | 79093028 | RESISTOR,METAL GLAZED(CHIP), 1K OHM 1 / 16 W 1608 1.00% D |
| R2N8 | 0RH1002C622 | 79093029 | RESISTOR,METAL GLAZED(CHIP), 10K OHM 1 / 16 W 1608 5.00% D |
| R2N9 | 0RH1002C622 | 79093029 | RESISTOR,METAL GLAZED(CHIP), 10K OHM 1 / 16 W 1608 5.00% D |
| R2P1 | 0RH1002C622 | 79093029 | RESISTOR,METAL GLAZED(CHIP), 10K OHM 1 / 16 W 1608 5.00% D |
| R2P2 | 0RH1002C622 | 79093029 | RESISTOR,METAL GLAZED(CHIP), 10K OHM 1 / 16 W 1608 5.00% D |
| R2P3 | 0RH1002C622 | 79093029 | RESISTOR,METAL GLAZED(CHIP), 10K OHM 1 / 16 W 1608 5.00% D |
| R2P4 | 0RH1802C622 | 79093037 | RESISTOR,METAL GLAZED(CHIP), 18K OHM 1 / 16 W 1608 5.00% D |
| R2P5 | 0RH1002C622 | 79093029 | RESISTOR,METAL GLAZED(CHIP), 10K OHM 1 / 16 W 1608 5.00% D |
| R2P6 | 0RH1001C622 | 79093028 | RESISTOR,METAL GLAZED(CHIP), 1K OHM 1 / 16 W 1608 1.00% D |
| R2P7 | 0RH2202C622 | 79093040 | RESISTOR,METAL GLAZED(CHIP), 22K OHM 1 / 16 W 1608 5.00% D |
| R2P8 | 0RH1201C622 | 79093031 | RESISTOR,METAL GLAZED(CHIP), 1.2K OHM 1 / 16 W 1608 5.00% D |
| R2Q1 | 0RH1002C622 | 79093029 | RESISTOR,METAL GLAZED(CHIP), 10K OHM 1 / 16 W 1608 5.00% D |
| R2Q2 | 0RH1001C622 | 79093028 | RESISTOR,METAL GLAZED(CHIP), 1K OHM 1 / 16 W 1608 1.00% D |
| R2Q3 | 0RH1001C622 | 79093028 | RESISTOR,METAL GLAZED(CHIP), 1K OHM 1 / 16 W 1608 1.00% D |
| R2Q4 | 0RH1502C622 | 79093035 | RESISTOR,METAL GLAZED(CHIP), 15K OHM 1 / 16 W 1608 5.00% D |
| R2Q5 | 0RH1202C622 | 79093032 | RESISTOR,METAL GLAZED(CHIP), 12K OHM 1 / 16 W 1608 5.00% D |
| R2Q6 | 0RH1002C622 | 79093029 | RESISTOR,METAL GLAZED(CHIP), 10K OHM 1 / 16 W 1608 5.00% D |
| R2Q7 | 0RH6801C622 | 79093050 | RESISTOR,METAL GLAZED(CHIP), 6.8K OHM 1 / 16 W 1608 5.00% D |
| R2Q8 | 0RH3301C622 | 79093042 | RESISTOR,METAL GLAZED(CHIP), 3.3K OHM 1 / 16 W 1608 5.00% D |
| R2R1 | 0RH1001C622 | 79093028 | RESISTOR,METAL GLAZED(CHIP), 1K OHM 1 / 16 W 1608 1.00% D |
| R302 | 0RH4701C622 | 79093045 | RESISTOR,METAL GLAZED(CHIP), 4.7K OHM 1 / 16 W 1608 5.00% D |
| R303 | 0RH4701C622 | 79093045 | RESISTOR,METAL GLAZED(CHIP), 4.7K OHM 1 / 16 W 1608 5.00% D |
| R304 | 0RH4701C622 | 79093045 | RESISTOR,METAL GLAZED(CHIP), 4.7K OHM 1 / 16 W 1608 5.00% D |
| R305 | 0RH4701C622 | 79093045 | RESISTOR,METAL GLAZED(CHIP), 4.7K OHM 1 / 16 W 1608 5.00% D |
| R306 | 0RH4701C622 | 79093045 | RESISTOR,METAL GLAZED(CHIP), 4.7K OHM 1 / 16 W 1608 5.00% D |
| R307 | 0RH5600C622 | 79093046 | RESISTOR,METAL GLAZED(CHIP), 560 OHM 1 / 16 W 1608 5.00% D |
| R308 | 0RH5600C622 | 79093046 | RESISTOR,METAL GLAZED(CHIP), 560 OHM 1 / 16 W 1608 5.00% D |
| R309 | 0RH1002C622 | 79093029 | RESISTOR,METAL GLAZED(CHIP), 10K OHM 1 / 16 W 1608 5.00% D |
| R310 | 0RH5600C622 | 79093046 | RESISTOR,METAL GLAZED(CHIP), 560 OHM 1 / 16 W 1608 5.00% D |
| R311 | 0RH5600C622 | 79093046 | RESISTOR,METAL GLAZED(CHIP), 560 OHM 1 / 16 W 1608 5.00% D |
| R314 | 0RH4701C622 | 79093045 | RESISTOR,METAL GLAZED(CHIP), 4.7K OHM 1 / 16 W 1608 5.00% D |
| R315 | 0RH1002C622 | 79093029 | RESISTOR,METAL GLAZED(CHIP), 10K OHM 1 / 16 W 1608 5.00% D |
| R316 | 0RH1002C622 | 79093029 | RESISTOR,METAL GLAZED(CHIP), 10K OHM 1 / 16 W 1608 5.00% D |
| R321 | 0RH1001C622 | 79093028 | RESISTOR,METAL GLAZED(CHIP), 1K OHM 1 / 16 W 1608 1.00% D |
| R323 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R325 | 0RH1001C622 | 79093028 | RESISTOR,METAL GLAZED(CHIP), 1K OHM 1 / 16 W 1608 1.00% D |
| R326 | 0RH4701C622 | 79093045 | RESISTOR,METAL GLAZED(CHIP), 4.7K OHM 1 / 16 W 1608 5.00% D |
| R327 | 0RH1002C622 | 79093029 | RESISTOR,METAL GLAZED(CHIP), 10K OHM 1 / 16 W 1608 5.00% D |
| R328 | 0RH4701C622 | 79093045 | RESISTOR,METAL GLAZED(CHIP), 4.7K OHM 1 / 16 W 1608 5.00% D |
| R329 | 0RH4701C622 | 79093045 | RESISTOR,METAL GLAZED(CHIP), 4.7K OHM 1 / 16 W 1608 5.00% D |
| R330 | 0RH4701C622 | 79093045 | RESISTOR,METAL GLAZED(CHIP), 4.7K OHM 1 / 16 W 1608 5.00% D |
| R331 | 0RH4701C622 | 79093045 | RESISTOR,METAL GLAZED(CHIP), 4.7K OHM 1 / 16 W 1608 5.00% D |
| R332 | 0RH6800C622 | 79093049 | RESISTOR,METAL GLAZED(CHIP), 680 OHM 1 / 16 W 1608 5.00% D |
| R351 | 0RH1000C622 | 79093027 | RESISTOR,METAL GLAZED(CHIP), 100 OHM 1 / 16 W 1608 5.00% D |
| R352 | 0RH1000C622 | 79093027 | RESISTOR,METAL GLAZED(CHIP), 100 OHM 1 / 16 W 1608 5.00% D |
| R353 | 0RH1000C622 | 79093027 | RESISTOR,METAL GLAZED(CHIP), 100 OHM 1 / 16 W 1608 5.00% D |
| R354 | 0RH1000C622 | 79093027 | RESISTOR,METAL GLAZED(CHIP), 100 OHM 1 / 16 W 1608 5.00% D |
| R355 | 0RH1000C622 | 79093027 | RESISTOR,METAL GLAZED(CHIP), 100 OHM 1 / 16 W 1608 5.00% D |

| LOCATION No. | LGE CODE | TOSHIBA CODE | DESCRIPTION |
|---|---|---|---|
| R356 | 0RH1000C622 | 79093027 | RESISTOR,METAL GLAZED(CHIP), 100 OHM 1 / 16 W 1608 5.00% D |
| R357 | 0RH1000C622 | 79093027 | RESISTOR,METAL GLAZED(CHIP), 100 OHM 1 / 16 W 1608 5.00% D |
| R358 | 0RH1000C622 | 79093027 | RESISTOR,METAL GLAZED(CHIP), 100 OHM 1 / 16 W 1608 5.00% D |
| R359 | 0RH1000C622 | 79093027 | RESISTOR,METAL GLAZED(CHIP), 100 OHM 1 / 16 W 1608 5.00% D |
| R360 | 0RH1000C622 | 79093027 | RESISTOR,METAL GLAZED(CHIP), 100 OHM 1 / 16 W 1608 5.00% D |
| R361 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R362 | 0RH1000C622 | 79093027 | RESISTOR,METAL GLAZED(CHIP), 100 OHM 1 / 16 W 1608 5.00% D |
| R363 | 0RH1000C622 | 79093027 | RESISTOR,METAL GLAZED(CHIP), 100 OHM 1 / 16 W 1608 5.00% D |
| R364 | 0RH4701C622 | 79093045 | RESISTOR,METAL GLAZED(CHIP), 4.7K OHM 1 / 16 W 1608 5.00% D |
| R365 | 0RH1001C622 | 79093028 | RESISTOR,METAL GLAZED(CHIP), 1K OHM 1 / 16 W 1608 1.00% D |
| R366 | 0RH1502C622 | 79093035 | RESISTOR,METAL GLAZED(CHIP), 15K OHM 1 / 16 W 1608 5.00% D |
| R3A1 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R3A2 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R3A3 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R3A4 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R3A5 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R3A6 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R3A7 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R3A8 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R3A9 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R3F1 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R3F3 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R3F4 | 0RH1002C622 | 79093029 | RESISTOR,METAL GLAZED(CHIP), 10K OHM 1 / 16 W 1608 5.00% D |
| R3F5 | 0RH1002C622 | 79093029 | RESISTOR,METAL GLAZED(CHIP), 10K OHM 1 / 16 W 1608 5.00% D |
| R3F9 | 0RH1501C622 | 79093034 | RESISTOR,METAL GLAZED(CHIP), 1.5K OHM 1 / 16 W 1608 5.00% D |
| R503 | 0RH1500C422 | 79093033 | RESISTOR,METAL GLAZE, 150 OHM 1 / 16 W 160 |
| R504 | 0RH1001C422 | 79093028 | RESISTOR,METAL GLAZED(CHIP), 1K OHM 1 / 16 W 1608 1.00% D |
| R505 | 0RH0102C622 | 79093021 | RESISTOR,METAL GLAZED(CHIP), 10 OHM 1 / 16 W 1608 5.00% D |
| R506 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R507 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R508 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R509 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R511 | 0RH3301C622 | 79093042 | RESISTOR,METAL GLAZED(CHIP), 3.3K OHM 1 / 16 W 1608 5.00% D |
| R512 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R513 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R514 | 0RH0222C622 | 79093023 | RESISTOR,METAL GLAZED(CHIP), 22 OHM 1 / 16 W 1608 5.00% D |
| R515 | 0RH0222C622 | 79093023 | RESISTOR,METAL GLAZED(CHIP), 22 OHM 1 / 16 W 1608 5.00% D |
| R516 | 0RH3300C622 | 79093041 | RESISTOR,METAL GLAZED(CHIP), 330 OHM 1 / 16 W 1608 5.00% D |
| R520 | 0RH0222C622 | 79093023 | RESISTOR,METAL GLAZED(CHIP), 22 OHM 1 / 16 W 1608 5.00% D |
| R522 | 0RH0222C622 | 79093023 | RESISTOR,METAL GLAZED(CHIP), 22 OHM 1 / 16 W 1608 5.00% D |
| R525 | 0LC0233002B | 79091002 | INDUCTOR,CHIP, HB-1S1608-800JT CERA |
| R533 | 0RH0222C622 | 79093023 | RESISTOR,METAL GLAZED(CHIP), 22 OHM 1 / 16 W 1608 5.00% D |
| R534 | 0RH1002C622 | 79093029 | RESISTOR,METAL GLAZED(CHIP), 10K OHM 1 / 16 W 1608 5.00% D |
| R535 | 0RH0222C622 | 79093023 | RESISTOR,METAL GLAZED(CHIP), 22 OHM 1 / 16 W 1608 5.00% D |
| R536 | 0RH0222C622 | 79093023 | RESISTOR,METAL GLAZED(CHIP), 22 OHM 1 / 16 W 1608 5.00% D |
| R580 | 0RH0222C622 | 79093023 | RESISTOR,METAL GLAZED(CHIP), 22 OHM 1 / 16 W 1608 5.00% D |
| R588 | 0RH0752C622 | 79093025 | RESISTOR,METAL GLAZED(CHIP), 75 OHM 1 / 16 W 1608 5.00% D |
| R589 | 0RH0752C622 | 79093025 | RESISTOR,METAL GLAZED(CHIP), 75 OHM 1 / 16 W 1608 5.00% D |
| R590 | 0RH0752C622 | 79093025 | RESISTOR,METAL GLAZED(CHIP), 75 OHM 1 / 16 W 1608 5.00% D |
| R591 | 0RH0752C622 | 79093025 | RESISTOR,METAL GLAZED(CHIP), 75 OHM 1 / 16 W 1608 5.00% D |
| R597 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R5B1 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R5B2 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| R5B3 | 0RH0000C622 | 79093020 | RESISTOR,METAL GLAZED(CHIP), 0 OHM 1 / 16 W 1608 5.00% D |
| | | | |
| A47 | 6871R-4408B | 79098502 | PC BOARD ASSY, OUTPUT, SD-2715/2705 |
| Q401 | 0TR150409AC | 79095005 | TRANSISTOR,BIPOLARS, KTA1504 TP KEC - ST1 CHIP |
| Q403 | 0TR387509AC | 79095008 | TRANSISTOR,BIPOLARS, CHIP KTC3875S-GR-T1(ALG) TP KEC - - |
| Q405 | 0TR387509AC | 79095008 | TRANSISTOR,BIPOLARS, CHIP KTC3875S-GR-T1(ALG) TP KEC - - |
| Q406 | 0TR387509AC | 79095008 | TRANSISTOR,BIPOLARS, CHIP KTC3875S-GR-T1(ALG) TP KEC - - |
| Q407 | 0TR387509AC | 79095008 | TRANSISTOR,BIPOLARS, CHIP KTC3875S-GR-T1(ALG) TP KEC - - |
| Q408 | 0TR387509AC | 79095008 | TRANSISTOR,BIPOLARS, CHIP KTC3875S-GR-T1(ALG) TP KEC - - |
| Q413 | 0TR387509AC | 79095008 | TRANSISTOR,BIPOLARS, CHIP KTC3875S-GR-T1(ALG) TP KEC - - |
| Q414 | 0TR387509AC | 79095008 | TRANSISTOR,BIPOLARS, CHIP KTC3875S-GR-T1(ALG) TP KEC - - |
| ZD605 | 0DZ560009CA | 79096014 | DIODE,ZENERS, MTZ5.6B TP ROHM - - - - - |
| ZD605 | 0DZ562609AA | 79096015 | DIODE,ZENERS, GDZJ5.6B 26MM TP GRANDE DO34 0.5W 5.45V 5UA - |
| ZD605 | 0DZ562609BB | 79096017 | DIODE,ZENER, UZ-5.6BSB 26MM TP PY |
| ZD606 | 0DZ560009CA | 79096014 | DIODE,ZENERS, MTZ5.6B TP ROHM - - - - - |
| ZD606 | 0DZ562609AA | 79096015 | DIODE,ZENERS, GDZJ5.6B 26MM TP GRANDE DO34 0.5W 5.45V 5UA - |
| ZD606 | 0DZ562609BB | 79096017 | DIODE,ZENER, UZ-5.6BSB 26MM TP PY |
| ZD611 | 0DZ560009CA | 79096014 | DIODE,ZENERS, MTZ5.6B TP ROHM - - - - - |
| ZD611 | 0DZ562609AA | 79096015 | DIODE,ZENERS, GDZJ5.6B 26MM TP GRANDE DO34 0.5W 5.45V 5UA - |
| ZD611 | 0DZ562609BB | 79096017 | DIODE,ZENER, UZ-5.6BSB 26MM TP PY |
| ZD612 | 0DZ560009CA | 79096014 | DIODE,ZENERS, MTZ5.6B TP ROHM - - - - - |
| ZD612 | 0DZ562609AA | 79096015 | DIODE,ZENERS, GDZJ5.6B 26MM TP GRANDE DO34 0.5W 5.45V 5UA - |
| ZD612 | 0DZ562609BB | 79096017 | DIODE,ZENER, UZ-5.6BSB 26MM TP PY |
| ZD635 | 0DZ560009CA | 79096014 | DIODE,ZENERS, MTZ5.6B TP ROHM - - - - - |
| ZD635 | 0DZ562609AA | 79096015 | DIODE,ZENERS, GDZJ5.6B 26MM TP GRANDE DO34 0.5W 5.45V 5UA - |
| ZD635 | 0DZ562609BB | 79096017 | DIODE,ZENER, UZ-5.6BSB 26MM TP PY |
| ZD636 | 0DZ560009CA | 79096014 | DIODE,ZENERS, MTZ5.6B TP ROHM - - - - - |
| ZD636 | 0DZ562609AA | 79096015 | DIODE,ZENERS, GDZJ5.6B 26MM TP GRANDE DO34 0.5W 5.45V 5UA - |
| ZD636 | 0DZ562609BB | 79096017 | DIODE,ZENER, UZ-5.6BSB 26MM TP PY |
| ZD637 | 0DZ560009CA | 79096014 | DIODE,ZENERS, MTZ5.6B TP ROHM - - - - - |

| | LOCATION No. | LGE CODE | TOSHIBA CODE | DESCRIPTION |
|---|---|---|---|---|
| | ZD637 | 0DZ562609AA | 79096015 | DIODE,ZENERS, GDZJ5.6B 26MM TP GRANDE DO34 0.5W 5.45V 5UA - |
| | ZD637 | 0DZ562609BB | 79096017 | DIODE,ZENER, UZ-5.6BSB 26MM TP PY |
| | ZD638 | 0DZ560009CA | 79096014 | DIODE,ZENERS, MTZ5.6B TP ROHM - - - - - |
| | ZD638 | 0DZ562609AA | 79096015 | DIODE,ZENERS, GDZJ5.6B 26MM TP GRANDE DO34 0.5W 5.45V 5UA - |
| | ZD638 | 0DZ562609BB | 79096017 | DIODE,ZENER, UZ-5.6BSB 26MM TP PY |
| | ZD641 | 0DZ560009CA | 79096014 | DIODE,ZENERS, MTZ5.6B TP ROHM - - - - - |
| | ZD641 | 0DZ562609AA | 79096015 | DIODE,ZENERS, GDZJ5.6B 26MM TP GRANDE DO34 0.5W 5.45V 5UA - |
| | ZD641 | 0DZ562609BB | 79096017 | DIODE,ZENER, UZ-5.6BSB 26MM TP PY |
| | ZD642 | 0DZ560009CA | 79096014 | DIODE,ZENERS, MTZ5.6B TP ROHM - - - - - |
| | ZD642 | 0DZ562609AA | 79096015 | DIODE,ZENERS, GDZJ5.6B 26MM TP GRANDE DO34 0.5W 5.45V 5UA - |
| | ZD642 | 0DZ562609BB | 79096017 | DIODE,ZENER, UZ-5.6BSB 26MM TP PY |
| | ZD643 | 0DZ560009CA | 79096014 | DIODE,ZENERS, MTZ5.6B TP ROHM - - - - - |
| | ZD643 | 0DZ562609AA | 79096015 | DIODE,ZENERS, GDZJ5.6B 26MM TP GRANDE DO34 0.5W 5.45V 5UA - |
| | ZD643 | 0DZ562609BB | 79096017 | DIODE,ZENER, UZ-5.6BSB 26MM TP PY |
| | ZD644 | 0DZ560009CA | 79096014 | DIODE,ZENERS, MTZ5.6B TP ROHM - - - - - |
| | ZD644 | 0DZ562609AA | 79096015 | DIODE,ZENERS, GDZJ5.6B 26MM TP GRANDE DO34 0.5W 5.45V 5UA - |
| | ZD644 | 0DZ562609BB | 79096017 | DIODE,ZENER, UZ-5.6BSB 26MM TP PY |
| | JK602 | 6612R-C006G | 79098905 | JACK,RCA, RCA DIN-11G YUQIU D.GND R9P+DIN NT MI |
| | L602 | 0LA0101K018 | 79091001 | INDUCTOR,AXIAL LEAD, 1UH 10% TP 2.3 X 3.4 TA26 - |
| | L603 | 0LA0101K018 | 79091001 | INDUCTOR,AXIAL LEAD, 1UH 10% TP 2.3 X 3.4 TA26 - |
| | F602 | 6200HJC901A | 79091006 | FILTER(CIRC),EMI, CFI06B1H101MF SAMWHA TP 2.5K/TP |
| | F603 | 6200HJC901A | 79091006 | FILTER(CIRC),EMI, CFI06B1H101MF SAMWHA TP 2.5K/TP |
| | F604 | 6200HJC901A | 79091006 | FILTER(CIRC),EMI, CFI06B1H101MF SAMWHA TP 2.5K/TP |
| | F605 | 6200HJC901A | 79091006 | FILTER(CIRC),EMI, CFI06B1H101MF SAMWHA TP 2.5K/TP |
| | F606 | 6200HJC901A | 79091006 | FILTER(CIRC),EMI, CFI06B1H101MF SAMWHA TP 2.5K/TP |
| | F607 | 6200HJC901A | 79091006 | FILTER(CIRC),EMI, CFI06B1H101MF SAMWHA TP 2.5K/TP |
| | F608 | 6200HJC901A | 79091006 | FILTER(CIRC),EMI, CFI06B1H101MF SAMWHA TP 2.5K/TP |
| | F612 | 6200HJC901A | 79091006 | FILTER(CIRC),EMI, CFI06B1H101MF SAMWHA TP 2.5K/TP |
| | F613 | 6200HJC901A | 79091006 | FILTER(CIRC),EMI, CFI06B1H101MF SAMWHA TP 2.5K/TP |
| | C601 | 0CN3920F668 | 79092032 | CAPACITOR,FIXED TUBULAR(High dielectric), 3900PF D 16V 20% X7R TA26 |
| | C603 | 0CE4774C638 | 79092008 | CAPACITOR,FIXED ELECTROLYTIC, 470UF SRA,SS 6.3V 20% FM5 TP 5 |
| | C603 | 0CE4775C618 | 79092009 | CAPACITOR,FIXED ELECTROLYTIC, 470UF SR,SV 6.3V 20% FL TP 5 |
| | C606 | 0CN3920F668 | 79092032 | CAPACITOR,FIXED TUBULAR(High dielectric), 3900PF D 16V 20% X7R TA26 |
| | C613 | 0CE4774C638 | 79092008 | CAPACITOR,FIXED ELECTROLYTIC, 470UF SRA,SS 6.3V 20% FM5 TP 5 |
| | C613 | 0CE4775C618 | 79092009 | CAPACITOR,FIXED ELECTROLYTIC, 470UF SR,SV 6.3V 20% FL TP 5 |
| | C614 | 0CE4774C638 | 79092008 | CAPACITOR,FIXED ELECTROLYTIC, 470UF SRA,SS 6.3V 20% FM5 TP 5 |
| | C614 | 0CE4775C618 | 79092009 | CAPACITOR,FIXED ELECTROLYTIC, 470UF SR,SV 6.3V 20% FL TP 5 |
| | C615 | 0CE4774C638 | 79092008 | CAPACITOR,FIXED ELECTROLYTIC, 470UF SRA,SS 6.3V 20% FM5 TP 5 |
| | C615 | 0CE4775C618 | 79092009 | CAPACITOR,FIXED ELECTROLYTIC, 470UF SR,SV 6.3V 20% FL TP 5 |
| | R601 | 0RD1000F608 | 79093003 | RESISTOR,FIXED CARBON FILM, 100 OHM 1/6 W 5.00% TA26 |
| | R602 | 0RD1000F608 | 79093003 | RESISTOR,FIXED CARBON FILM, 100 OHM 1/6 W 5.00% TA26 |
| | R618 | 0RD1003F608 | 79093006 | RESISTOR,FIXED CARBON FILM, 100K OHM 1/6 W 5.00% TA26 |
| | R619 | 0RD1003F608 | 79093006 | RESISTOR,FIXED CARBON FILM, 100K OHM 1/6 W 5.00% TA26 |
| | R620 | 0RD2200F608 | 79093011 | RESISTOR,FIXED CARBON FILM, 220 OHM 1/6 W 5.00% TA26 |
| | R621 | 0RD2200F608 | 79093011 | RESISTOR,FIXED CARBON FILM, 220 OHM 1/6 W 5.00% TA26 |
| | R622 | 0RD0222F608 | 79093001 | RESISTOR,FIXED CARBON FILM, 22 OHM 1/6 W 5.00% TA26 |
| | R633 | 0RD4701F608 | 79093017 | RESISTOR,FIXED CARBON FILM, 4.7K OHM 1/6 W 5.00% TA26 |
| | R677 | 0RD1001F608 | 79093004 | RESISTOR,FIXED CARBON FILM, 1K OHM 1/6 W 5.00% TA26 |
| | R6M1 | 0RD2200F608 | 79093011 | RESISTOR,FIXED CARBON FILM, 220 OHM 1/6 W 5.00% TA26 |
| | R6M2 | 0RD2200F608 | 79093011 | RESISTOR,FIXED CARBON FILM, 220 OHM 1/6 W 5.00% TA26 |
| | R6M3 | 0RD1003F608 | 79093006 | RESISTOR,FIXED CARBON FILM, 100K OHM 1/6 W 5.00% TA26 |
| | R6M4 | 0RD1003F608 | 79093006 | RESISTOR,FIXED CARBON FILM, 100K OHM 1/6 W 5.00% TA26 |
| | | | | |
| ! | A48 | 3501R-3073B | 79098501 | PC BOARD ASSY, POWER SUPPLY, SD-2715/2705 |
| | IC101 | 0IPMGFA005A | 79094017 | IC,POWER MANAGEMENT, KA5M0365R-YDTU FAIRC |
| | IC102 | 0ILI817000B | 79094013 | IC,LITEON, LTV-817B PHOTO-COUPLER DIP - - - - |
| | IC102 | 657-061B | 79094028 | SENSOR, PHOTO COUPLER PS2561-1-V NEC |
| | IC102 | 657-062B | 79094029 | SENSOR, PC123Y PHOTO-COUPLER(SARPH) |
| ! | IC102 | 657-063A | 79094030 | SENSOR, LTV-817B,PHOTO COUPLER(LITEON) |
| | IC103 | 0IKE781200B | 79094011 | IC,KEC, KIA7812PI 12V 1A,KEC - - - - |
| | IC103 | 0IKE781200P | 79094012 | IC,KEC, KIA7812API TO220 ST 3P 12V REGULATOR |
| | IC104 | 0IKE431000A | 79094010 | IC,KEC, KIA431 3 PIN TP - - |
| | IC104 | 0ISS431000A | 79094020 | IC,SAMSUNG ELECTRONICS, KA431AZ (LM431AZ) - - - - |
| | IC105 | 0ISS780800H | 79094021 | IC,SAMSUNG ELECTRONICS, KA78R08 4P,TO-220F BK LOW DROP 8V REGULATOR |
| | IC106 | 0ISH313000B | 79094019 | IC,SHARP, PQ3RD13 TO220 ST 3.3V REGULAOR 4PIN LOW DROP |
| | IC106 | 0ISS783300A | 79094022 | IC,SAMSUNG ELECTRONICS, KA78R33TU TO220-4L BK 3.3V L/DROP REGULATOR |
| | IC107 | 0ISH313000B | 79094019 | IC,SHARP, PQ3RD13 TO220 ST 3.3V REGULAOR 4PIN LOW DROP |
| | IC107 | 0ISS783300A | 79094022 | IC,SAMSUNG ELECTRONICS, KA78R33TU TO220-4L BK 3.3V L/DROP REGULATOR |
| | IC108 | 0ISS791200A | 79094023 | IC,SAMSUNG ELECTRONICS, KA7912 ST REGULATOR IC - - - - |
| | Q107 | 0TR127309AA | 79095003 | TRANSISTOR,BIPOLARS, KTA1273 TP KEC - - -Y (KTA966A) |
| | Q107 | 0TR127309AB | 79095004 | TRANSISTOR,BIPOLARS, KTA1273-O(KTA966A-O) TP KEC - - |
| | Q108 | 0TR319809AC | 79095006 | TRANSISTOR,BIPOLARS, KTC3198 TP KEC - - -BL (KTC1815) |
| | Q108 | 0TR319909AF | 79095007 | TRANSISTOR,BIPOLARS, KTC3199-BL MINI TP KEC - - |
| | BD101 | 0DD160000DA | 79096005 | DIODE,RECTIFIERS, S1WBA60 BK SHINDENGEN - 600V - - - - |
| | D100 | 0DD010009CA | 79096002 | DIODE,RECTIFIERS, EG01C TP SANKEN - - - - - - |
| | D100 | 0DD221009AA | 79096006 | DIODE,RECTIFIERS, ERA22-10 KFLB,TP ,R T/P,FUJI |
| | D102 | 0DR158220AA | 79096009 | DIODE,RECTIFIERS, 1N5822 BK RECTRON DO201AD 40V 3A 80A - - |
| | D102 | 0DR810040BA | 79096011 | DIODE,RECTIFIERS, ERC81-004L22 BK FUJI DO201AD 40V 2.6A 1 |
| | D103 | 0DD440000AA | 79096007 | DIODE,RECTIFIERS, RK-44(SCHTOKY) SANKEN |
| | D103 | 0DR310000AA | 79096010 | DIODE,RECTIFIERS, RU3YXLF-C1 BK SANKEN - 100V 2A 20A - 0.2UA |
| | D104 | 0DD010009AC | 79096001 | DIODE,RECTIFIERS, EU01W(R-FORM) TP SANKEN |
| | D104 | 0DD104009DA | 79096003 | DIODE,RECTIFIERS, 10ELS4(R-FORM 5MM) TP INTA |
| | D104 | 0DD104009DB | 79096004 | DIODE,RECTIFIERS, 10ELS4, (TA1B2) 26 TP INTA |

| | LOCATION No. | LGE CODE | TOSHIBA CODE | DESCRIPTION |
|---|---|---|---|---|
| | D106 | 0DR104009AB | 79096008 | DIODE,RECTIFIERS, RL104 R. TP GULF SEMICONDUCTOR LTD. - 400V 1A 30A |
| | D107 | 0DD010009AC | 79096001 | DIODE,RECTIFIERS, EU01W(R-FORM) TP SANKEN |
| | D107 | 0DD104009DA | 79096003 | DIODE,RECTIFIERS, 10ELS4(R-FORM 5MM) TP INTA |
| | D107 | 0DD104009DB | 79096004 | DIODE,RECTIFIERS, 10ELS4, (TA1B2) 26 TP INTA |
| | D108 | 0DD010009AC | 79096001 | DIODE,RECTIFIERS, EU01W(R-FORM) TP SANKEN |
| | D108 | 0DD104009DA | 79096003 | DIODE,RECTIFIERS, 10ELS4(R-FORM 5MM) TP INTA |
| | D108 | 0DD104009DB | 79096004 | DIODE,RECTIFIERS, 10ELS4, (TA1B2) 26 TP INTA |
| | D109 | 0DR158220AA | 79096009 | DIODE,RECTIFIERS, 1N5822 BK RECTRON DO201AD 40V 3A 80A - - |
| | D109 | 0DR810040BA | 79096011 | DIODE,RECTIFIERS, ERC81-004L22 BK FUJI DO201AD 40V 2.6A 1 |
| | D110 | 0DD010009AC | 79096001 | DIODE,RECTIFIERS, EU01W(R-FORM) TP SANKEN |
| | D110 | 0DD104009DA | 79096003 | DIODE,RECTIFIERS, 10ELS4(R-FORM 5MM) TP INTA |
| | D110 | 0DD104009DB | 79096004 | DIODE,RECTIFIERS, 10ELS4, (TA1B2) 26 TP INTA |
| | D116 | 0DRRE00029A | 79096012 | DIODE,RECTIFIERS, 1N17 RECTRON TP NON |
| | D117 | 0DRRE00029A | 79096012 | DIODE,RECTIFIERS, 1N17 RECTRON TP NON |
| | ZD101 | 0DZ560009CA | 79096014 | DIODE,ZENERS, MTZ5.6B TP ROHM - - - - - |
| | ZD101 | 0DZ562609AA | 79096015 | DIODE,ZENERS, GDZJ5.6B 26MM TP GRANDE DO34 0.5W 5.45V 5UA - |
| ! | F101 | 585-027B | 79098701 | FUSE,SLOW BLOW, 1600MA 250 V 5.2X20 CY/GL KS / JAPAN / UL / CSA 51 |
| | F102 | 0IRH100000B | 79094018 | IC,ROHM, ICP-N10 T104 TP IC DETACT |
| | BC101 | 636-004C | 79091008 | CORE (CIRC),BEAD, BEAD CORE BFS3550R2FD8,R T/P |
| ! | L101 | 616-145H | 79091003 | FILTER(CIRC), SHT LFS2020V4-04350 |
| | L101 | 616-145J | 79091004 | FILTER(CIRC), BUJEON V-04350 |
| | L103 | 633-088G | 79091007 | COIL,CHOKE, CHOCK(22MH) TP 5MM |
| | L105 | 633-088G | 79091007 | COIL,CHOKE, CHOCK(22MH) TP 5MM |
| ! | T101 | 642-024E | 79091009 | TRANSFORMER |
| ! | C101 | 624-088F | 79092037 | CAPACITOR,DRAWING, PCX2 275V 0.1UF,M (PILKO) |
| | C102 | 624-088F | 79092037 | CAPACITOR,DRAWING, PCX2 275V 0.1UF,M (PILKO) |
| | C103 | 0CE157CR610 | 79092004 | CAPACITOR,FIXED ELECTROLYTIC, 150UF SHL,SD 250V 20% FL BULK |
| | C104 | 624-085D | 79092035 | CAPACITOR,FIXED ELECTROLYTIC, CE 47UF/50V KME (SMPS) |
| | C109 | 0CE108BF630 | 79092003 | CAPACITOR,FIXED ELECTROLYTIC, 1000UF KME TYPE 16V 20% FM5 BULK |
| | C112 | 0CE3376D638 | 79092007 | CAPACITOR,FIXED ELECTROLYTIC, 330UF SMS,SG 10V 20% FM5 TP 5 |
| | C113 | 0CG3320U630 | 79092012 | CAPACITOR,FIXED CERAMIC(Temp.compensate), 3300PF D 400V 20% E(Z5U) R |
| | C115 | 0CE1064K638 | 79092001 | CAPACITOR,FIXED ELECTROLYTIC, 10UF SRA,SS 50V 20% FM5 TP 5 |
| | C116 | 0CE477BH630 | 79092010 | CAPACITOR,FIXED ELECTROLYTIC, 470UF KME TYPE 25V 20% FM5 BULK |
| | C116 | 0CE477BH638 | 79092011 | CAPACITOR,FIXED ELECTROLYTIC, 470UF KME TYPE 25V 20% FM5 TP 5 |
| | C118 | 0CE1076F638 | 79092002 | CAPACITOR,FIXED ELECTROLYTIC, 100UF SMS,SG 16V 20% FM5 TP 5 |
| | C119 | 624-087B | 79092036 | CAPACITOR,FIXED CERAMIC(High dielectric), HIGH-VOL 100P/1KV SMPS SAMHWA |
| | C120 | 0CE1076F638 | 79092002 | CAPACITOR,FIXED ELECTROLYTIC, 100UF SMS,SG 16V 20% FM5 TP 5 |
| | C121 | 0CE2276F638 | 79092005 | CAPACITOR,FIXED ELECTROLYTIC, 220UF SMS,SG 16V 20% FM5 TP 5 |
| | C122 | 624-085D | 79092035 | CAPACITOR,FIXED ELECTROLYTIC, CE 47UF/50V KME (SMPS) |
| | C123 | 0CE108BF630 | 79092003 | CAPACITOR,FIXED ELECTROLYTIC, 1000UF KME TYPE 16V 20% FM5 BULK |
| | C124 | 0CE3374H638 | 79092006 | CAPACITOR,FIXED ELECTROLYTIC, 330UF SRA,SS 25V 20% FM5 TP 5 |
| | C126 | 0CQ1031Y519 | 79092033 | CAPACITOR,FIXED FILM, 0.01UF D 630V 10% PE NI TP5 |
| | C127 | 0CE1076F638 | 79092002 | CAPACITOR,FIXED ELECTROLYTIC, 100UF SMS,SG 16V 20% FM5 TP 5 |
| | C128 | 0CQ4732K409 | 79092034 | CAPACITOR,FIXED FILM, 0.047UF S 50V 5% PE TP5 |
| | C129 | 0CE1076F638 | 79092002 | CAPACITOR,FIXED ELECTROLYTIC, 100UF SMS,SG 16V 20% FM5 TP 5 |
| | C130 | 0CE1076F638 | 79092002 | CAPACITOR,FIXED ELECTROLYTIC, 100UF SMS,SG 16V 20% FM5 TP 5 |
| | C131 | 0CE1076F638 | 79092002 | CAPACITOR,FIXED ELECTROLYTIC, 100UF SMS,SG 16V 20% FM5 TP 5 |
| | C137 | 0CE3376D638 | 79092007 | CAPACITOR,FIXED ELECTROLYTIC, 330UF SMS,SG 10V 20% FM5 TP 5 |
| | C138 | 0CE1076F638 | 79092002 | CAPACITOR,FIXED ELECTROLYTIC, 100UF SMS,SG 16V 20% FM5 TP 5 |
| | R100 | 0RD1504H632 | 79093009 | RESISTOR,FIXED CARBON FILM, 1.5M OHM 1/2 W 5.00% MF10 |
| | R101 | 614-007A | 79093056 | RESISTOR,FIXED CEMENT, 2.7/2W CEMENT SMPS V |
| | R102 | 0RD2203F608 | 79093012 | RESISTOR,FIXED CARBON FILM, 220K OHM 1/6 W 5.00% TA26 |
| | R103 | 0RS5602K619 | 79093055 | RESISTOR,FIXED METAL OXIDE FILM, 56K OHM 2 W 5.00% TR |
| | R104 | 0RD2203F608 | 79093012 | RESISTOR,FIXED CARBON FILM, 220K OHM 1/6 W 5.00% TA26 |
| | R111 | 0RD3300F608 | 79093014 | RESISTOR,FIXED CARBON FILM, 330 OHM 1/6 W 5.00% TA26 |
| | R112 | 0RD0391F608 | 79093002 | RESISTOR,FIXED CARBON FILM, 3.9 OHM 1/6 W 5.00% TA26 |
| | R114 | 0RD1003F608 | 79093006 | RESISTOR,FIXED CARBON FILM, 100K OHM 1/6 W 5.00% TA26 |
| | R120 | 0RD4702F608 | 79093018 | RESISTOR,FIXED CARBON FILM, 47K OHM 1/6 W 5.00% TA26 |
| | R121 | 0RD1201F608 | 79093007 | RESISTOR,FIXED CARBON FILM, 1.2K OHM 1/6 W 5.00% TA26 |
| | R122 | 0RD2200F608 | 79093011 | RESISTOR,FIXED CARBON FILM, 220 OHM 1/6 W 5.00% TA26 |
| | R123 | 0RD1002F608 | 79093005 | RESISTOR,FIXED CARBON FILM, 10K OHM 1/6 W 5.00% TA26 |
| | R124 | 0RD1800F608 | 79093010 | RESISTOR,FIXED CARBON FILM, 180 OHM 1/6 W 5.00% TA26 |
| | R125 | 0RD3901F608 | 79093015 | RESISTOR,FIXED CARBON FILM, 3.9K OHM 1/6 W 5.00% TA26 |
| | R126 | 0RD1001F608 | 79093004 | RESISTOR,FIXED CARBON FILM, 1K OHM 1/6 W 5.00% TA26 |
| | R127 | 0RN3601E408 | 79093054 | RESISTOR,FIXED METAL FILM, 3.6K OHM 1/8 W 1.00% TA26 |
| | R128 | 0RN3301E408 | 79093053 | RESISTOR,FIXED METAL FILM, 3.3K OHM 1/8 W 1.00% TA26 |
| | R130 | 0RD1002F608 | 79093005 | RESISTOR,FIXED CARBON FILM, 10K OHM 1/6 W 5.00% TA26 |
| | R140 | 0RD1002F608 | 79093005 | RESISTOR,FIXED CARBON FILM, 10K OHM 1/6 W 5.00% TA26 |
| | R141 | 0RD1002F608 | 79093005 | RESISTOR,FIXED CARBON FILM, 10K OHM 1/6 W 5.00% TA26 |
| | R145 | 0RD4700F608 | 79093016 | RESISTOR,FIXED CARBON FILM, 470 OHM 1/6 W 5.00% TA26 |
| | | | | PC BOARD ASSY, FRONT |
| | PBT00 | 6871R-4443A | 79098906 | DISPLAY, FL |
| | ZD901 | 0DZ562609BA | 79096016 | DIODE,ZENERS, GDZJ5.6C 26MM TP GRANDE DO34 0.5W 5.61V 5UA - |
| | ZD902 | 0DZ562609BA | 79096016 | DIODE,ZENERS, GDZJ5.6C 26MM TP GRANDE DO34 0.5W 5.61V 5UA - |
| | R907 | 0RD3300F608 | 79093014 | RESISTOR,FIXED CARBON FILM, 330 OHM 1/6 W 5.00% TA26 |
| | R919 | 0RD4701F608 | 79093017 | RESISTOR,FIXED CARBON FILM, 4.7K OHM 1/6 W 5.00% TA26 |
| | R920 | 0RD2702F608 | 79093013 | RESISTOR,FIXED CARBON FILM, 27K OHM 1/6 W 5.00% TA26 |
| | R953 | 0RD1502F608 | 79093008 | RESISTOR,FIXED CARBON FILM, 15K OHM 1/6 W 5.00% TA26 |
| | R969 | 0RD2702F608 | 79093013 | RESISTOR,FIXED CARBON FILM, 27K OHM 1/6 W 5.00% TA26 |
| | R970 | 0RD6802F608 | 79093019 | RESISTOR,FIXED CARBON FILM, 68K OHM 1/6 W 5.00% TA26 |

| | LOCATION No. | LGE CODE | TOSHIBA CODE | DESCRIPTION |
|---|---|---|---|---|
| | 13 | 6871R-0001J | 79098601 | PWB(PCB) ASSY,TOTAL, DPM1 JUNCTION DVD-CD |
| | 22 | 6871R-3024C | 79098602 | PWB(PCB) ASSY,TOTAL, DPM1 TRAY |
| | 38 | 6871R-3026B | 79098603 | PWB(PCB) ASSY,TOTAL, DPM1 MAIN-MODE |
| | | | | |
| ! | A00 | 6721R-0314C | 79097001 | DECK MECHANISM, 5DISK |
| | 11 | 3210R-0041A | 79097012 | FRAME, UP/DOWN |
| | | | | |
| | A01 | 4931R-0037A | 79097002 | HOLDER ASSY, CLAMP |
| | 1 | 3300R-0547A | 79097006 | PLATE, CLAMP |
| | 2 | 5016H-1016B | 79097007 | MAGNET, CLAMP(LDM-R608,10*5,1*1.5T) |
| | 3 | 4860R-0009A | 79097008 | CLAMP, UPPER |
| | 4 | 4930R-0197A | 79097009 | HOLDER, CLAMP |
| | | | | |
| | A02 | 3041R-0014B | 79097003 | BASE ASSY, TRAY (DPM1) |
| | 20 | 4470R-0073A | 79097017 | GEAR, WHEEL TRAY |
| | 21 | 4470R-0074A | 79097018 | GEAR, TRAY |
| | 23 | 4580R-0006A | 79097019 | ROLLER, BASE TRAY |
| | 24 | 4681R-0010C | 79097020 | MOTOR ASSY, TRAY |
| | 26 | 3390R-0008A | 79097021 | TRAY, DISC (DPM1) |
| | | | | |
| ! | A03 | 3041R-0022B | 79097004 | PICK-UP MECHANISM |
| | 8 | 4470R-0047A | 79097010 | GEAR, ASSY RACK |
| | 9 | 4470R-0053A | 79097011 | GEAR, MIDDLE |
| | 12 | 5040R-0047D | 79097013 | RUBBER, DAMPER(HARDNESS=30),DARKGREEN CHUNPOONG |
| | 14 | 5040R-0047A | 79097014 | RUBBER, REAR(E2,5040H-1054A),YAMAUCHI |
| | 14 | 5040R-0047B | 79097015 | RUBBER, DAMPER(E2,5040H-1054A),CHUNPOONG |
| | 16 | 4470R-0050A | 79097016 | GEAR, ASSY FEED |
| | | | | |
| | A04 | 3041R-0016A | 79097005 | BASE ASSY, MAIN |
| | 30 | 3040R-0031A | 79097022 | BASE, MAIN (DPM1) |
| | 31 | 4470R-0069A | 79097023 | GEAR, SLIDER |
| | 32 | 4470R-0067A | 79097024 | GEAR, MAIN |
| | 33 | 4470R-0070A | 79097025 | GEAR, EXCHANGE |
| | 34 | 4470R-0068A | 79097026 | GEAR, UP/DOWN |
| | 35 | 4470R-0071A | 79097027 | GEAR, LOADING |
| | 36 | 4681R-0012A | 79097028 | MOTOR ASSY, MAIN |
| | 37 | 4470R-0072A | 79097029 | GEAR, WHEEL MAIN |
| | | | | |
| | A43 | 3501R-4475A | 79097101 | PANEL ASSY, FRONT, W/PCB, SD-2715/2705 |
| | 283 | 3581R-T019A | 79097102 | PANEL, TRAY, SD-2715 |
| | 283 | 3581R-T019B | 79097103 | PANEL, TRAY, SD-2705 |
| | 250 | 3110R-0194D | 79097301 | COVER, TOP |
| | | | | |
| | 260 | 3141R-0037E | 79097302 | FRAME, BOTTOM |
| | 275 | 4811R-0027D | 79097910 | BRACKET ASSY, MAIN(DVM3800 . W/O G |
| | 285 | 3301R-M013C | 79097911 | BRACKET, FRONT PCB |
| ! | 300 | 6410RAHS02A | 79098801 | POWER CORD, AP-10W NI SP2 CORE 80 STP SANGNONG UL/CSA 1750MM G |
| | 413 | 4000R-0006A | 79097909 | SCREW,DRAWING, TAPTITE 3*8(353-025B) |
| | 430 | 1SZZH-1003A | 79097901 | SCREW,DRAWING, + D2.0 6MM SWRCH16A/NIY 4.5MM 1.5MM MACHINE PAN PL |
| | 432 | 1SZZR-0011A | 79097902 | SCREW,DRAWING, MACHINE |
| | 452 | 353-051A | 79097905 | SCREW,DRAWING, SPECIAL |
| | 457 | 353-051E | 79097907 | SCREW,DRAWING, SPECIAL (3X12) |
| | 462 | 353-085E | 79097908 | SCREW,DRAWING, + 3 D4.0 L10.0 MSWR3/FZMCW-2 |
| | 463 | 353-051B | 79097906 | SCREW,DRAWING, SPECIAL |
| | 465 | 353-046K | 79097903 | SCREW,DRAWING, SPECIAL (3X10 B.K) |
| | 467 | 353-046N | 79097904 | SCREW,DRAWING, SPECIAL(3X8 BK.) |
| | | | | |
| | 900 | 6711R1N063A | 79097801 | REMOCON HAND UNIT, SD-2705 |
| | 900 | 6711R1N064A | 79097802 | REMOCON HAND UNIT, SD-2715 |
| | 801 | 3835RS0020C | 79097701 | OWNER'S MANUAL, ENGLISH, SD-2715 |
| ! | 801 | 3835RS0020D | 79097702 | OWNER'S MANUAL, ENGLISH, SD-2705 |
| | 811 | 564-017B | 79098903 | PLUG ASSY, PHONO CORD 1WAY (YL) |
| | 812 | 564-018B | 79098904 | PLUG ASSY, PHONO CORD 2WAY (RD/WH) |
| | | | | |
| | 802 | 3890R-H758P | 79097501 | CARTON BOX, SD-2715 |
| | 802 | 3890R-H758R | 79097502 | CARTON BOX, SD-2705 |
| | 803 | 3920R-E013A | 79097503 | PACKING, DVM-3800 0.02 140 EPS 8 435 879 |

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